

Thu Apr 25 08:07:05 2002

us-09-964-678a-1.rn1

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: April 24, 2002, 17:07:56 ; Search time 52.52 Seconds
(Without alignments) 6744.164 Million cell updates/sec

Title: US-09-964-678A-1
Perfect score: 1442
Sequence: 1 ttttttttttgagtagag.....ttaacaacagcttagagca 1442

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 38353 seqs, 122816752 residues

767066

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents, NA.*
1: /cgn2_6/ptodata/2/lna/5A.COMB.seq.*
2: /cgn2_6/ptodata/2/lna/5B.COMB.seq.*
3: /cgn2_6/ptodata/2/lna/6A.COMB.seq.*
4: /cgn2_6/ptodata/2/lna/6B.COMB.seq.*
5: /cgn2_6/ptodata/2/lna/PCTUS.COMB.seq.*
6: /cgn2_6/ptodata/2/lna/Backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|--------|-------------|--------|---------------------|-------------------|
| 1 | 1442 | 100.0 | 1442 | US-08-454-557C-120 | Sequence 120, App |
| 2 | 1442 | 100.0 | 1442 | US-08-340-426D-120 | Sequence 120, App |
| 3 | 1442 | 100.0 | 1442 | US-08-450-673C-120 | Sequence 120, App |
| 4 | 1233.4 | 84.8 | 1418 | PCT-US95-17111A-120 | Sequence 49, App1 |
| 5 | 1080.2 | 74.9 | 1381 | US-08-454-557C-49 | Sequence 49, App1 |
| 6 | 1080.2 | 74.9 | 1381 | US-08-340-426D-49 | Sequence 49, App1 |
| 7 | 1080.2 | 74.9 | 1381 | US-08-450-673C-49 | Sequence 49, App1 |
| 8 | 1080.2 | 74.9 | 1381 | PCT-US95-17111A-9 | Sequence 35, App1 |
| 9 | 475.4 | 33.0 | 14796 | US-08-975-080-35 | Sequence 10, App1 |
| 10 | 475.4 | 33.0 | 14796 | US-09-630-706-10 | Sequence 3, App1 |
| 11 | 475.4 | 33.0 | 14796 | US-09-496-694B-3 | Sequence 3, App1 |
| 12 | 416.4 | 28.9 | 55065 | US-09-813-817-3 | Sequence 101, App |
| 13 | 400.8 | 27.3 | 5543 | US-08-687-080-101 | Sequence 9, App1 |
| 14 | 393.6 | 27.3 | 4421 | US-08-257-963B-9 | Sequence 9, App1 |
| 15 | 393.6 | 27.3 | 4421 | US-08-367-841A-9 | Sequence 9, App1 |
| 16 | 393.6 | 27.3 | 4421 | PCT-US95-07201-9 | Sequence 1, App1 |
| 17 | 393 | 27.3 | 53526 | US-08-658-136-2 | Sequence 1, App1 |
| 18 | 393 | 27.3 | 53577 | US-08-658-136-1 | Sequence 1, App1 |
| 19 | 386 | 26.8 | 31571 | US-08-323-443B-1 | Sequence 6, App1 |
| 20 | 374.6 | 25.5 | 2664 | US-09-173-914-6 | Sequence 28, App1 |
| 21 | 371.4 | 25.5 | 2664 | US-09-564-805-28 | Sequence 20, App1 |
| 22 | 367.4 | 25.5 | 6769 | US-08-480-784-20 | Sequence 20, App1 |
| 23 | 367.4 | 25.5 | 6769 | US-08-483-553-20 | Sequence 20, App1 |
| 24 | 367.4 | 25.5 | 6769 | US-08-487-002-20 | Sequence 20, App1 |
| 25 | 367.4 | 25.5 | 6769 | US-08-483-554B-20 | Sequence 20, App1 |
| 26 | 367.4 | 25.5 | 6769 | US-08-488-011B-20 | Sequence 20, App1 |
| 27 | 367.4 | 25.5 | 6769 | US-08-850-727-20 | Sequence 20, App1 |

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| 28 | 367.4 | 25.5 | 6769 | PCT-US95-10202-20 | Sequence 20, App1 |
| 29 | 367.4 | 25.5 | 6769 | PCT-US95-10202-20 | Sequence 20, App1 |
| 30 | 367.4 | 25.5 | 6769 | PCT-US95-10202-20 | Sequence 20, App1 |
| 31 | 357.2 | 24.8 | 8392 | US-08-080-255-6 | Sequence 6, App1 |
| 32 | 357.2 | 24.8 | 8392 | US-08-465-713-6 | Sequence 6, App1 |
| 33 | 357.2 | 24.8 | 8392 | PCT-US93-05857-6 | Sequence 6, App1 |
| 34 | 356.8 | 24.7 | 8449 | US-09-797-906-3 | Sequence 3, App1 |
| 35 | 355.8 | 24.7 | 3035 | US-08-726-725-2 | Sequence 63, App1 |
| 36 | 354.2 | 24.6 | 8342 | US-08-545-860D-63 | Sequence 63, App1 |
| 37 | 354.2 | 24.6 | 8342 | PCT-US94-04496-63 | Sequence 7, App1 |
| 38 | 349.2 | 24.2 | 35060 | US-08-814-095-7 | Sequence 9, App1 |
| 39 | 345.8 | 24.0 | 4421 | US-08-257-963B-9 | Sequence 9, App1 |
| 40 | 345.8 | 24.0 | 4421 | US-08-367-841A-9 | Sequence 9, App1 |
| 41 | 345.8 | 24.0 | 4421 | PCT-US95-07201-9 | Sequence 2, App1 |
| 42 | 344.2 | 23.9 | 3286 | US-09-211-417-2 | Sequence 1, App1 |
| 43 | 344 | 23.9 | 4803 | US-09-197-636-3 | Sequence 3, App1 |
| 44 | 344 | 23.9 | 4803 | US-09-197-636-3 | Sequence 3, App1 |
| 45 | 342.6 | 23.8 | 11811 | US-09-078-294-7 | Sequence 7, App1 |

ALIGNMENTS

RESULT 1
US-08-454-557C-120
Sequence 120, Application US/08454557C
Patent No. 5830670
GENERAL INFORMATION:
APPLICANT: de la Monte, Suzanne
APPLICANT: Mads, Jack R.
TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection
TITLE OF INVENTION: of Alzheimer's Disease
NUMBER OF SEQUENCES: 121
CORRESPONDENCE ADDRESS:
ADDRESS: Sterne Kessler, Goldstein & Fox P.L.L.C.
STREET: 1100 New York Avenue, Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/08/454,557C
APPLICATION NUMBER: 514
CLASSIFICATION: 514
FILING DATE: 30-MAY-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ludwig, Steven R.
REGISTRATION NUMBER: 36,203
REFERENCE/DOCKET NUMBER: 0609,3840003
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2540
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 120:
SEQUENCE CHARACTERISTICS:
LENGTH: 1442 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: both
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 15..1139
US-08-454-557C-120

Query Match 100.0%; Score 1442; DB 2; Length 1442;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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1      RESULT 2
2      US-08-340-426D-120
3      ; Sequence 120, Application US/08340426D
4      ; Patent No. 5948634
5      ; GENERAL INFORMATION:
6      ; APPLICANT: de la Monte, Suzanne
7      ; APPLICANT: Mands, Jack R.
8      ; TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection
9      ; TITLE OF INVENTION: of Alzheimer's Disease
10     ; NUMBER OF SEQUENCES: 121
11     ; CORRESPONDENCE ADDRESS:
12     ; ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
13     ; STREET: 1100 New York Avenue, Suite 600
14     ; CITY: Washington
15     ; STATE: D.C.
16     ; COUNTRY: U.S.A.
17     ; ZIP: 20005-3934
18     ; COMPUTER READABLE FORM:
19     ; MEDIUM TYPE: Floppy disk
20     ; COMPUTER: IBM PC compatible
21     ; OPERATING SYSTEM: PC-DOS/MS-DOS
22     ; SOFTWARE: Patent In Release #1.0, Version #1.25
23     ; CURRENT APPLICATION DATA:
24     ; APPLICATION NUMBER: US/08/340.426D
25     ; FILING DATE: 14-NOV-1994
26     ; CLASSIFICATION: 435
27     ; ATTORNEY/AGENT INFORMATION:
28     ; NAME: Lodwig, Steven R.
29     ; REGISTRATION NUMBER: 36,203
30     ; REFERENCE/DOCKET NUMBER: 0609.3840002
31     ; TELECOMMUNICATION INFORMATION:
32     ; TELEPHONE: (202) 371-2600
33     ; TELEFAX: (202) 371-2540
34     ; INFORMATION FOR SEQ. ID NO.: 120:
35     ; SEQUENCE CHARACTERISTICS:
36     ; LENGTH: 1442 base pairs
37     ; TYPE: nucleic acid
38     ; STRANDEDNESS: double
39     ; TOPOLOGY: both
40     ; MOLECULE TYPE: cDNA
41     ; FEATURE:
42     ; NAME/KEY: CDS
43     ; LOCATION: 15..1139
44     ; US-08-340-426D-120

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[illegible]

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| OY | | 1021 | gcttcccaagcagctggattacggagcactgccaaccaacccgcgtatttttgtaatt | 1080 |
| Db | | 1021 | gcttcccaagcagctggattacggagcactgccaaccaacccgcgtatttttgtaatt | 1080 |
| OY | | 1081 | tcattagaagcaggggttttcaacataattgtgaagctgtgtcacaactctgaactcaggt | 1140 |
| Db | | 1081 | tcattagaagcaggggttttcaacataattgtgaagctgtgtcacaactctgaactcaggt | 1140 |
| OY | | 1141 | gaaccacbtccctcaacgcttcacaagatgctggattaaagcgtgaacacactcacccag | 1200 |
| Db | | 1141 | gaaccacbtccctcaacgcttcacaagatgctggattaaagcgtgaacacactcacccag | 1200 |
| OY | | 1141 | gaaccacbtccctcaacgcttcacaagatgctggattaaagcgtgaacacactcacccag | 1200 |
| Db | | 1141 | gaaccacbtccctcaacgcttcacaagatgctggattaaagcgtgaacacactcacccag | 1200 |
| OY | | 1201 | ccggcctaattagaataaataatgtagcaatggggggctctgctatgttgcacagagct | 1260 |
| Db | | 1201 | ccggcctaattagaataaataatgtagcaatggggggctctgctatgttgcacagagct | 1260 |
| OY | | 1201 | ccggcctaattagaataaataatgtagcaatggggggctctgctatgttgcacagagct | 1260 |
| Db | | 1201 | ccggcctaattagaataaataatgtagcaatggggggctctgctatgttgcacagagct | 1260 |
| OY | | 1261 | ggtctcaaacctctggtcttcacatcccttcgcaaatgagccacaacacccagcagta | 1320 |
| Db | | 1261 | ggtctcaaacctctggtcttcacatcccttcgcaaatgagccacaacacccagcagta | 1320 |
| OY | | 1261 | ggtctcaaacctctggtcttcacatcccttcgcaaatgagccacaacacccagcagta | 1320 |
| Db | | 1261 | ggtctcaaacctctggtcttcacatcccttcgcaaatgagccacaacacccagcagta | 1320 |
| OY | | 1321 | caatttttaaacagctacatccttatttttagtaactagaactagaagtatacaataaacatgt | 1380 |
| Db | | 1321 | caatttttaaacagctacatccttatttttagtaactagaactagaagtatacaataaacatgt | 1380 |
| OY | | 1381 | caaacctgcacaattcagtagtagtaacagagttctttataacttttaacaaacgttttag | 1440 |
| Db | | 1381 | caaacctgcacaattcagtagtagtaacagagttctttataacttttaacaaacgttttag | 1440 |
| OY | | 1441 | caaacctgcacaattcagtagtagtaacagagttctttataacttttaacaaacgttttag | 1440 |
| Db | | 1441 | caaacctgcacaattcagtagtagtaacagagttctttataacttttaacaaacgttttag | 1440 |

RESULT 5
 US-08-450-673C-120
 ; Sequence 120, Application US/08450673C
 ; Patent No. 594888
 ;
 ; GENERAL INFORMATION:
 ;
 ; APPLICANT: de la Monte, Suzanne
 ;
 ; APPLICANT: Wands, Jack R.
 ;
 ; TITLE OF INVENTION: Neutral Thread Protein Gene Expression and Detection
 ;
 ; TITLE OF INVENTION: of Alzheimer's Disease
 ;
 ; NUMBER OF SEQUENCES: 121
 ;
 ; CORRESPONDENCE ADDRESS:
 ;
 ; ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
 ;
 ; STREET: 1100 New York Avenue, Suite 600
 ;
 ; CITY: Washington
 ;
 ; STATE: D.C.
 ;
 ; COUNTRY: U.S.A.
 ;
 ; ZIP: 20005-3934
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 ; COMPUTER READABLE FORM:
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 ; MEDIUM TYPE: Floppy disk
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 ; COMPUTER: IBM PC compatible
 ;
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ;
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ;
 ; CURRENT APPLICATION DATA:
 ;
 ; APPLICATION NUMBER: US/08/450,673C
 ;
 ; FILING DATE: 30-MAY-1995
 ;
 ; CLASSIFICATION: 530
 ;
 ; ATTORNEY/AGENT INFORMATION:
 ;
 ; NAME: Ludwig, Steven R.
 ;
 ; REGISTRATION NUMBER: 36,203
 ;
 ; REFERENCE/DOCKET NUMBER: 0609, 3840004
 ;
 ; TELECOMMUNICATION INFORMATION:
 ;
 ; TELEPHONE: (202) 371-2600
 ;
 ; TELEFAX: (202) 371-2540
 ;
 ; INFORMATION FOR SEQ ID NO: 120:
 ;
 ; SEQUENCE CHARACTERISTICS:
 ;
 ; LENGTH: 1442 base pairs
 ;
 ; TYPE: nucleic acid
 ;
 ; STRANDEDNESS: double
 ;
 ; TOPOLOGY: both
 ;
 ; MOLECULE TYPE: cDNA

us-09-964-678a-1.rn

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|----------------------------|---------|--------------|-------|--------------|
| Query Match | 100.0%; | Score 1442; | DB 2; | Length 1442; |
| Best Local Similarity | 100.0%; | Pred. No. 0; | | |
| Matches 1442; Conservative | 0; | Mismatches | | |

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| QY | 961 | ggccaactctcggtcactcgtgcaacacctgcctccggggttaagagatctctctgtctca | 1020 |
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| QY | 1021 | gectccaaacagctggaattacgggacactgcacacacaccggttaattttgtattt | 1020 |
| Db | 1021 | gectccaaacagctggaattacgggacactgcacacacaccggttaattttgtattt | 1020 |
| QY | 1081 | tcattagaagcgagggtttcacacatacttgcaggcttgctccaaacctgactcaggt | 1140 |
| Db | 1081 | tcattagaagcgagggtttcacacatacttgcaggcttgctccaaacctgactcaggt | 1140 |
| QY | 1141 | gaccacactgctcagctcccaaaagtctgaggatgacaggctlbgagccactcaccag | 1200 |
| Db | 1141 | gaccacactgctcagctcccaaaagtctgaggatgacaggctlbgagccactcaccag | 1200 |
| QY | 1201 | ccggctcaattagataaaaaaataatgagaatggggggtctgtcagtgtgccagagct | 1260 |
| Db | 1201 | ccggctcaattagataaaaaaataatgagaatggggggtctgtcagtgtgccagagct | 1260 |
| QY | 1261 | ggtccaaactctggtctcatgacactctccaaatgagccacaacaccgagcagca | 1320 |
| Db | 1261 | ggtctcaaaactctggtctcatgacactctccaaatgagccacaacaccgagcagca | 1320 |
| QY | 1321 | catcttttaaaacagtaactcttatttttagtatactagaagtaatbcaataaacatgt | 1380 |
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| QY | 1381 | gaaactcgcaaatcagtagtaaacagagttctttataactcttaacaaagctttagag | 1440 |
| Db | 1381 | caaactcgcaaatcagtagtaaacagagttctttataactcttttaacaaagctttagag | 1440 |
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| Db | 1441 | ca 1442 | 1440 |

RESULT 4
PCT-US95-17111A-120
; Sequence 120, Application PC/US9517111A
; GENERAL INFORMATION:
; APPLICANT: de la Monte, Suzanne
; APPLICANT: Wands, Jack R.
; TITLE OF INVENTION: Neural Thread Protein Gene Expression and
; TITLE OF INVENTION: Detection of Alzheimer's Disease
; NUMBER OF SEQUENCES: 121
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/17111A
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/340,426
; FILING DATE: 14-NOV-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Ludwig, Steven R.
; REGISTRATION NUMBER: 36,203
; REFERENCE/DOCKET NUMBER: 0609.3840002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540

18;

| | 33: Indels | 25: Gaps |
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| Oy | 2 | 16 |
| Db | 1 | |
| Oy | 62 | |
| Db | 61 | |
| Oy | 122 | |
| Db | 121 | |
| Oy | 182 | |
| Db | 180 | |
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| Db | 895 | ggcggcgctatttttttaatttttttggtttggtttgaagaatgaatctactctgtttaccagctgc | 954 |
| Qy | 952 | gaatgaatgagcaaatctcgtctcaatgcacatgcctctccctcccgagcttaagagttct | 1011 |
| Db | 955 | gagttgcatttg - ccaatcttggctacttcgcacactcttgcctcccgag - tcaacgatttt | 1012 |
| Qy | 1012 | ccctctcagccctcccaagaagcctgggattacgggaacactgcgcacacacacccgcgaatt | 1071 |
| Db | 1013 | cctgtctcacccttcccaacacactgggattacggg - acctgcacacacccccgctaatt | 1070 |
| Qy | 1072 | ttgtattttcaattagaagcgagggttcacatattgtcaagct - ggtctcaactect | 1130 |
| Db | 1071 | tttgtatttttcattgagagcggggttt - accatatttttgtaagcctgggcttccaactctct | 1128 |
| Qy | 1131 | gaacctaaagtacccacactgcctcagcttccaagtctctggattacaagcgctgagca | 1190 |
| Db | 1129 | gaccttaagctgaaccacactgcctcagcttccaagctgtggattacagcgctgagcca | 1188 |
| Qy | 1191 | ccctcaccagcggcgcttaattagataaaaaaalatgtagcaatggggggtcttgcattgt | 1250 |
| Db | 1189 | ccctcaccagcggcgcttaatttgcaatgaaaaaattatgtagcaattggggg - tctctcattgt | 1246 |
| Qy | 1251 | tgcccaagcctggtctcaactctcgtctcagctagcaatccttcgcaatgagcacaacacc | 1310 |
| Db | 1247 | tgcccaagcctggtctcaaatctcttgcttccagctcaattcttccaaatgacccaacaaccc | 1306 |
| Qy | 1311 | cagcgaatgaatctttttaacagcttacaatccttatttgatataactagaagaatataca | 1370 |
| Db | 1307 | cagcgaatgaatcttttttaaacagcttacaatcttatttgatataactagaagaatataca | 1366 |
| Qy | 1371 | ataaacatgctcaaac | 1385 |
| Db | 1367 | ataaacatgctcaaac | 1381 |

RESULT 6
 US-08-340-426D-49
 Sequence 49, Application US/08340426D
 Patent No. 5948634
 GENERAL INFORMATION:
 APPLICANT: de la Monte, Suzanne
 APPLICANT: Mands, Jack R.
 TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection
 NUMBER OF SEQUENCES: 121
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
 STREET: 1100 New York Avenue, Suite 600
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20005-3934
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/340,426D
 FILING DATE: 14-NOV-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Ludwig, Steven R.
 REGISTRATION NUMBER: 36, 203
 REFERENCE/DOCKET NUMBER: 0609, 3840002
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 371-2600
 TELEFAX: (202) 371-2540
 INFORMATION FOR SEQ ID NO: 49:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1381 base pairs

| | | | |
|----|------|--|------|
| OY | 952 | gaatgcaatygccaactctcggtcctaactccctctgcctccgggtccaagatattct | 1011 |
| Dd | 955 | GAGTGCAAATG-G-CAAAATCTGGCTACTCGCAACCTCTGCCCTCCGG--TCAAAGCATTTCT | 1012 |
| OY | 1012 | cctggtccaagcctcccagaacagcttgggattaaggcgaaacctggcacacaaccgcgtaatt | 1071 |
| Dd | 1013 | CCTGTCCACACCTCCCAACGACAGCTGGATTACGG--ACCTGGACCACACCCCGCTAATT | 1070 |
| OY | 1072 | ttagtatattcatatgaagcgggggtttaccatatattgtcaagt-gfctcaaacactct | 1130 |
| Dd | 1071 | TTTTGATTTTCATTAGAAGCGGGGATT--ACCATATTTTGTCAGGCTGGGTCTCMAAATCTCT | 1128 |
| OY | 1131 | gaactcaggtgagccaccctgcctcagaaccttcgaagtgctgggatatacagggttagagca | 1190 |
| Dd | 1129 | GACCTCAGAGTACCCTCTGCTCACGCTTCCAAGGTCTGGGATTCAAGCGTGAACCA | 1188 |
| OY | 1191 | cctcaaccagcgcgcgctaattagaataaatatgatagaacttgggggttcttgtatgt | 1250 |
| Dd | 1189 | CGTCACCCGCGGGCTAATTGGATTAATAAATATGTACACAATGGGGG--TCCTCTTAGT | 1246 |
| OY | 1251 | tgcgccaggttgltccaaactctcgcgtctcaatgcaactccttccaatatagccacaacacc | 1310 |
| Dd | 1247 | TGCCCGAGGCTGCTCAAACTCTGTGGCTTCAGTAATCTTCCAAATGAGCCACACACCC | 1306 |
| OY | 1311 | caagcagtagcaattttttaacagttacatcttattttgatatctaaaagaatiaaca | 1370 |
| Dd | 1307 | CAGCGAGTCACATTTTTAAACAGTTACATCTTATTATTGTACTAGAAAGTATATCA | 1366 |
| OY | 1371 | ataaacatgtcaaac | 1385 |
| Dd | 1367 | ATAAACATGTCAAAC | 1381 |

1 / Sequence 49, Application US/08450673C
 2 / Patent No. 5948888
 3 /
 4 / GENERAL INFORMATION:
 5 / APPLICANT: de la Monte, Suzanne
 6 / APPLICANT: Wands, Jack R.
 7 / TITLE OF INVENTION: Neural Thread protein Gene Expression and Detection
 8 / TITLE OF INVENTION: Of Alzheimer's Disease
 9 / NUMBER OF SEQUENCES: 121
 10 /
 11 / CORRESPONDENCE ADDRESS:
 12 / ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
 13 / STREET: 1100 New York Avenue, Suite 600
 14 / CITY: Washington
 15 /
 16 / STATE: D.C.
 17 / COUNTRY: U.S.A.
 18 / ZIP: 20005-3934
 19 /
 20 / COMPUTER READABLE FORM:
 21 / MEDIUM TYPE: Floppy disk
 22 /
 23 / COMPUTER: IBM PC compatible
 24 / OPERATING SYSTEM: PC-DOS/MS-DOS
 25 / SOFTWARE: PatentIn Release #1.0, Version #1.25
 26 /
 27 / CURRENT APPLICATION DATA:
 28 / APPLICATION NUMBER: US/08/450,673C
 29 / FILING DATE: 30-MAY-1995
 30 /
 31 / CLASSIFICATION: 530
 32 /
 33 / ATTORNEY/AGENT INFORMATION:
 34 / NAME: Ludwig, Steven R.
 35 / REGISTRATION NUMBER: 36, 203
 36 / REFERENCE/DOCKET NUMBER: 0609, 3840004
 37 /
 38 / TELECOMMUNICATION INFORMATION:
 39 / TELEPHONE: (202) 371-2540
 40 / TELEFAX: (202) 371-2540
 41 /
 42 / INFORMATION FOR SEQ ID NO: 49:
 43 / SEQUENCE CHARACTERISTICS:
 44 / LENGTH: 1381 base pairs
 45 / TYPE: nucleic acid
 46 / STRANDEDNESS: both
 47 / TOPOLOGY: both

[illegible][illegible]


```

QY 358 --agctcaagcagtcacactgctcagcctcccaagtgctggaattacagcgctgcagc 415
Db 5730 cctgattctggaatcactgcaaccccgctcctcgttggaagtgattgctgcttcagc 5789
QY 416 cgtgctgctgcttatttatttatttatttatttatttatttatttatttatttatttattt 475
Db 5790 ctcccaagtagcagagattacagcagctgctgcaacccaggaattatttatttattt 5849
QY 476 tgaagtcagtgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 532
Db 5850 ggttagagacagagattacacagctgctgctgctgctgctgctgctgctgctgctgctg 5909
QY 533 tccctcctgctcagcctcccaagtagctggaacaaagacatgcaacacacacacacacac 591
Db 5910 tccacccgctcagcctcccaagtagctggaatagctgctgctgctgctgctgctgctgct 5969
QY 592 -----taatttatttatttatttatttatttatttatttatttatttatttatttattt 640
Db 5970 tcaggaagatttatttatttatttatttatttatttatttatttatttatttatttattt 6028
QY 641 caccagagctgagtagcagtgctgcaatctgctcactgcaactgctgctcctcctcctggt 700
Db 6029 cgcacagagtagagtagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 6088
QY 701 caagttattctcctcctcctcctcctcctcctcctcctcctcctcctcctcctcctcct 757
Db 6089 caagcattctcctcctcctcctcctcctcctcctcctcctcctcctcctcctcctcctc 6148
QY 758 ccaagcatttatttatttatttatttatttatttatttatttatttatttatttatttatt 816
Db 6149 cccgagcatttatttatttatttatttatttatttatttatttatttatttatttatttatt 6208
QY 817 tcttgatctctggaactctgctgctgctgctgctgctgctgctgctgctgctgctgctg 876
Db 6209 tcttgatctctggaactctgctgctgctgctgctgctgctgctgctgctgctgctgctg 6268
QY 877 gctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 936
Db 6269 gctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 6320
QY 937 ctgttaccagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 996
Db 6321 ctgttaccagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 6379
QY 997 ggtcacaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1056
Db 6380 agctcaagtagctcctcctcctcctcctcctcctcctcctcctcctcctcctcctcct 6439
QY 1057 cacaacccgctaatatttatttatttatttatttatttatttatttatttatttatttatt 1101
Db 6440 catgcccacacatttatttatttatttatttatttatttatttatttatttatttatttatt 6499
QY 1102 catatttgcaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1161
Db 6500 tctgttctcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 6559
QY 1162 caaagtcgctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1218
Db 6560 caaagtcgctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 6616

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RESULT 11
US-09-496-694B-3
Sequence 3, Application US/0949694B

Patent No. 635194
GENERAL INFORMATION:
APPLICANT: C. Frank Bennett
APPLICANT: Elizabeth J. Ackermann
APPLICANT: Eric E. Swayze
APPLICANT: Lex M. Cowser
TITLE OF INVENTION: ANTISENSE MODULATION OF SURVIVIN EXPRESSION
FILE REFERENCE: ISPH-0439
CURRENT APPLICATION NUMBER: US/09/496,694B

```

; CURRENT FILING DATE: 2000-02-02
; PRIOR APPLICATION NUMBER: 09/286,407
; PRIOR FILING DATE: 1999-04-05
; PRIOR APPLICATION NUMBER: 09/163,162
; PRIOR FILING DATE: 1998-09-29
; NUMBER OF SEQ ID NOS: 249
; SEQ ID NO 3
; LENGTH: 14796
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (2811)...(2921)
; NAME/KEY: CDS
; LOCATION: (3174)...(3283)
; NAME/KEY: CDS
; LOCATION: (5158)...(5275)
; NAME/KEY: CDS
; LOCATION: (11955)...(12044)
; US-09-496-694B-3

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Query Match 33.0%; Score 475.4; DB 4; Length 14796;
Best Local Similarity 69.8%; Pred. No. 7.9e-123;
Matches 877; Conservative 0; Mismatches 321; Indels 59; Gaps 15;

QY 1 ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 60
Db 5380 ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 5438
QY 61 tctcagctcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 5498
Db 5439 tcttgcctcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 5488
QY 121 cagtagctgagtagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 180
Db 5499 aagtaactgagtagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 5555
QY 181 tagagtaggagtagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 240
Db 5556 tagagtaggagtagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 5613
QY 241 cctcgcctcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 300
Db 5614 cgcacaccttgctcctcccaagtgctgctgctgctgctgctgctgctgctgctgctgctg 5670
QY 301 tggcctaatttttttttttttttttttttttttttttttttttttttttttttttttttttt 357
Db 5671 ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 5729
QY 358 --agctcaagcagtcacactgctcagcctcccaagtgctggaattacagcgctgcagc 415
Db 5730 cctgattctggaatcactgcaaccccgctcctcgttggaagtgattgctgcttcagc 5789
QY 416 cgtgctgctgcttatttatttatttatttatttatttatttatttatttatttatttattt 475
Db 5790 ctcccaagtagcagagattacagcagctgctgcaacccaggaattatttatttatttattt 5849
QY 476 tgaagtcagtgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 532
Db 5850 ggttagagacagagattacacagctgctgctgctgctgctgctgctgctgctgctgctg 5909
QY 533 tccctcctgctcagcctcccaagtagctggaacaaagacatgcaacacacacacacacac 591
Db 5910 tccacccgctcagcctcccaagtagctggaatagctgctgctgctgctgctgctgctgct 5969
QY 592 -----taatttatttatttatttatttatttatttatttatttatttatttatttattt 640
Db 5970 tcaggaagatttatttatttatttatttatttatttatttatttatttatttatttattt 6028
QY 641 caccagcctgagtagcagtgcaatctgctcactgcaactgctgctcctcctcctggt 700
Db 6029 cgcacagcagtagagtagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 6088

```

| Query Match | Best Local Similarity | 28.9% | Score 416.4 | DB 4 | Length 59065 |
|-------------|-----------------------|--|-------------|----------------|--------------|
| Matches | 815 | Conservative | 0 | Mismatches 326 | Indels 63 |
| | | | | | Gaps |
| QY | 42 | ctggagtgcaatgagcgaatcctgaagtcacccgaacctgcctccgggttaacgcat | 101 | | |
| | | | | | |
| Db | 15163 | CTGGAGGCGAGTGGCCGAGCTCAGACACACTGCACCTTCACCTCCAGGTTCAAGCAT | 15100 | | |
| QY | 102 | tctctctgcccaagcctccaccagtagcttggagatlaaggaatgtgaaccacagccgcta | 161 | | |
| | | | | | |
| Db | 15103 | TCTCTCTGCCCTTAAGTCTCCCAAGAGAGCTGGAGTTACAGGTCGTCCGACATCGCTGGGCTTA | 15044 | | |
| QY | 162 | atttgtaattttcttttagtagagatggaggtttccatgtgtgtcaggctgtggtctcgaa | 221 | | |
| | | | | | |

| | | | | | | | |
|----|-------|--|---------------|------------------|---------------------|--------|-------|
| Db | 15043 | ATTTTT--- | TGTAATTTT | AGTAGAGCAAAAGTTT | CACCATGTTGGCAGAGCTG | CTCGGA | 14987 |
| QY | 222 | ctccgaacctagatgataccctcgcctcgagcctcccaagtgct- | agatacaggactg | 280 | | | |
| Db | 14986 | CTGCTTAACCTCAAGTGTATCGCGCGCTGACACTCCCAAAAGTGTGGGATTT | ACAAGCGCG | 14927 | | | |
| QY | 281 | cccaatgcgccgagctcgcctgctgtaattttgtgtagaacaaggtttcaactg | 340 | | | | |
| Db | 14926 | AGGCACCGGGGCCCAACCTCCATTTTTTTTTTTTTTTTGGACAGAGTCTGCTGTGCG | 14867 | | | | |
| QY | 341 | cccaagctg----- | gctcctagctca | 363 | | | |
| Db | 14866 | CCGAGGCTGTGACTGTGAGTGGCGCATCTCAGCTCAAGCTTCGCGCTCCGGGTTCA | 14807 | | | | |
| QY | 364 | agcaatcgaacctgagctcgaagctcccaagtgctggattacag- | gagtgagcgtg | 421 | | | |
| Db | 14806 | CGCCATTCCTCGCTCAGCTCAGCTCTGTAGTATCAAGGAGTACAGTGTGCTGTGCACATGCC | 14747 | | | | |
| QY | 422 | tgagctttttatttattttttttttaagaacaggtgtgccactttcccaagatga | 481 | | | | |
| Db | 14746 | TGGCTAATTTTGTGTAATTTTATTTAGTAGAGCGGTTTTCACTGTTGATCCAGGATGGTCT | 14687 | | | | |
| QY | 482 | gcagtggtgtatcatcagactgcagctgcagccttcaactcctgagatcaagatcctc | 541 | | | | |
| Db | 14686 | -CGATCTCTGACCTTGTGATCCGCCCCCTCGGCGCTCCCAAGTGTGGGATTTACATGC | 14628 | | | | |
| QY | 542 | ctcagcctcccaagtagcttggaaccaaga-----catgacacacacacacgcgtcta | 596 | | | | |
| Db | 14627 | GTTAGGCGACCGTCCGCTGCGCTCCCATATTTTTTATTTTATTTATTTATTTATTTATTT | 14568 | | | | |
| QY | 597 | ttatt | 656 | | | | |
| Db | 14567 | TATTTATGTTTATTTATTTATTTATTTAGACAGAGCTCTC | 14509 | | | | |
| QY | 657 | caatggcgaactctggtcctcactgcgaacctcgcctccggtttcaagtatttcgcgc | 716 | | | | |
| Db | 14508 | CAGTGACATGATGTGGCGCCACCTGCAACCTCGCTCCGGGTTACACGATTTCTCGTC | 14449 | | | | |
| QY | 717 | cccaagcctcc---tgagtagcttgagactcaagagggc-----cacaacgctagta | 770 | | | | |
| Db | 14448 | CTCAGCTCTCAAGTAGATAGCTGGGAGCTACAGAGACATGCACACATGCTGTGGCTAA | 14391 | | | | |
| QY | 771 | ttgtatttttagtagaagatggg--ttcaacatgtcgcagagtgatcttgatcctg | 829 | | | | |
| Db | 14390 | TTTGTATTTTCAGTGTGATGATGGGTTTCACCATGTTGGCAGGCTATCTCGATCTCTG | 14331 | | | | |
| QY | 830 | acct--tgatctcgcgcctcgagcctcccaagtgctggattacaaggctgagccac | 887 | | | | |
| Db | 14330 | ACCTCAAGTATTCACACCTGCGCTTCCCAAAAGTCTGGGATTTACTGTGAGACAAA | 14271 | | | | |
| QY | 888 | caagccggagcttaatttattttgtgtttgaatgaaatcgaactcgtgtaccga | 946 | | | | |
| Db | 14270 | CGCGCTGCGCTGTTCTTTTTTTTTTTTTTTTTTTGTGATAGGCTTGTGCTCTGTATCCA | 14211 | | | | |
| QY | 947 | gagctgagatgcaatggccaactcgcctcgaactgcgaactcgtcctcccggtcca | 1006 | | | | |
| Db | 14210 | GGCTGGATCTAGTGGTGCAGTCAATGTTACATGCGACCTCAAACTCTCGGCTCAAGA | 14151 | | | | |
| QY | 1007 | attctcgtctcgaagctcccaagcagcgtcggaaattagggcaactgcgcaaccaacccgc | 1066 | | | | |
| Db | 14150 | ATCCTCTGCGCTCAGCTCTCTTAAGTAGCTGGAGACACAGGCAATGAGCCACCATGCTTGGC | 14091 | | | | |
| QY | 1067 | taattttgatttcaataltagagcgggggtttcacacatatttgtcagcgtgltc-aa | 1125 | | | | |
| Db | 14090 | TAAATTTTTGATTTTTTGTGGGAGTAGAGGTCTGTGCTGTTATCCAGACTATCTTGGAA | 14031 | | | | |
| QY | 1126 | ctccctgacctagaggagaccacactgcctcagcctccaagtgctggattcaagagcgtg | 1185 | | | | |
| Db | 14030 | CTCGAGATTCAGCAATCTCTCCGCTTAAGGCTCCCAAAAGTGTGATTTATTAAGTGA | 13971 | | | | |
| QY | 1186 | agcc 1189 | | | | | |
| Db | 13970 | AGCC 13967 | | | | | |

| | Query Match | 27.8% | Score 400.8: | DB 2 | Length 5543: |
|----|---|--------------|---------------------|------------|--------------|
| | Best Local Similarity | 72.1% | Pred. No. 3.4e-102: | | |
| | Matches 610: | Conservative | Mismatches 217: | Indels 19: | Gaps 6: |
| QY | 592 taattttatcttcatatlttaatttttgagacagagtctcaactcgtcacccagcg | 651 | | | |
| Db | 1274 TGACCTTTTTTTTTTTTTTTTTTTTATTAAGACGGAGTC-GGCTGTCTACCAGACTG | 1216 | | | |
| QY | 652 gaatgcagggggaactctgtgctaacbcacacctctccctccgggttcagaatlctc | 711 | | | |
| Db | 1215 GAGGCAGTGTCGATTCGGCTTCACCTCAGCGCTCCCTCCAGGTACAGGCATTTC | 1156 | | | |
| QY | 712 cctgcccaagcctctcgtgtagctctggagataaggcgcccaccac---gctaactaatl | 768 | | | |
| Db | 1155 CCGTCCCTCACCTTCCTGAGTAGCTGGGAAGCTACAGGCCGCCACACAGCCCGGTATT | 1096 | | | |
| QY | 769 ttttgttatcttiagtagagagvggg--ctcaccaagtctcgcaagttatcttagtctc | 827 | | | |
| Db | 1095 TTTTGTATTTTGTATGTAAGAACAAGGGGTTTCGGGCTGTACCAAGAAATGATTCGATTC | 1036 | | | |
| QY | 828 ggaacttbtgatctgcctgcctcgcgcctcccaagtcgttgaaattacaagcgttgacac | 887 | | | |

RESULT 14
 US-08-257-963B-9
 Sequence 9, Application US/08257963B
 Patent No. 5840666
 GENERAL INFORMATION:
 APPLICANT: Chader, Gerald J.; Becerra, S.
 APPLICANT: Patricia, Schwartz, Joan P.;
 APPLICANT: Taniwaki, Takayuki
 TITLE OF INVENTION: PIGMENT EPITHELIIUM
 TITLE OF INVENTION: DERIVED FACTOR: CHARACTERIZATION OF ITS NOVEL
 TITLE OF INVENTION: BIOLOGICAL ACTIVITY AND SEQUENCES ENCODING
 TITLE OF INVENTION: AND EXPRESSING THE PROTEIN
 NUMBER OF SEQUENCES: 42
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Morgan & Finnegan
 STREET: 345 Park Avenue
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10154
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/257, 963B
 FILING DATE:
 CLASSIFICATION: 514
 PRIORITY DATA:

| | | | | | |
|-----------------------|--------------|---------------------|----------------|--------------|--------|
| Query Match | 27.3% | Score 393.6; | DB 2; | Length 4421; | |
| Best Local Similarity | 82.8%; | Pred. No. 3.1e-100; | | | |
| Matches 512; | Conservative | 0; | Mismatches 94; | Indels 12; | Gaps 5 |

Db 4078 CCATACCTGGCCAGCAA 4095

| | | | | |
|---------------------------|--------|---------------------|-------|--------------|
| Query Match | 27.38; | Score 393.6; | DB 4; | Length 4421; |
| Best Local Similarity | 82.88; | Pred. No. 3.1e-100; | | |
| Matches 512; Conservative | 0. | Miscellaneous | | |

[illegible]

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Db 3544 GCAGTGGCCGATCTCGGCTCACTGCAACCTCTTCTCCCGGGTTCACCCCATTCCTCTG 3603
QY 716 cccagcctcctagtagctggactacagcg---cccaacagcctagctaatttlt 772
Db 3604 CCTCAACCTCCCGAGTAGCTGGAATACAGGGCTCCGCCACACGCGCACTAATTTT 3663
QY 773 tgtattttagtagagatggg-ttaaccaatgttgcgaagtgtgactcttgagac 831
Db 3664 TGTATTTTATAGAGAGACGGGGTTTCACCGTGTACCGAGATGGTCTGATCTCTGAC 3723
QY 832 ctgtgaatctgctcctcctcctcctcccaagtgcgtggaatlaaagcgtgagccacag 891
Db 3724 CTGCTGATCTGCTGCTGCTGCTGCCCTCCCAAGTCTGGAATTACAGGCTTGAGCCACGCA 3783
QY 892 cccgactaatttlaatttltgttgaatgaaatcactctgttaccagactg 951
Db 3784 CCGGCTCTTATTTT-----TTGAGATGAGTCTCACACTGTACCTGTACCTGGGCTG 3837
QY 952 gagtgaatggccaatctcgtctacatgaactctgctcccggtcgaagcattct 1011
Db 3838 GAGTGCAGTGGAGCGATCTCGGCTCACTGCAACCTCGGCTCTCGGGTTCAGAGATCT 3897
QY 1012 cctgtctcagcctcccaacagctggatlaagcgacactgccaacaccccgcta-at 1070
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QY 1071 ttctgtatttcaatagagcggtgttcaacaatttgcaggtggtctcaactct 1130
Db 3958 TTTTGTATTTTATTAAGATGGGTTTCACCATGTTGGCCAGGCTGTCTTGAACCTCT 4017
QY 1131 gacctcaagtgaccacactgacctcaagcttccaaagtgtcggatlaaagcgtagcca 1190
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Search completed: April 24, 2002, 19:37:30
Job time: 8974 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 24, 2002, 17:05:21 ; Search time 1728.26 Seconds
(without alignments)
17460.374 Million cell updates/sec

Title: US-09-964-678a-1
Perfect score: 1442
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Scoring table: IDENTITY-NUC
Gapop 10.0 , Gapext 1.0

Searched: 1797656 segs, 10463268293 residues

Total number of hits satisfying chosen parameters: 3595312

Minimum DB seg length: 0

Maximum DB seg length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: gb.Htg.*
3: gb.In.*
4: gb.Om.*
5: gb.Ov.*
6: gb.Pat.*
7: gb.Ph.*
8: gb.Pl.*
9: gb.Pr.*
10: gb.Ro.*
11: gb.Sts.*
12: gb.Sy.*
13: gb.Un.*
14: gb.Vi.*
15: em.Da.*
16: em.Fun.*
17: em.Hum.*
18: em.In.*
19: em.Mu.*
20: em.Om.*
21: em.Or.*
22: em.Ov.*
23: em.Pat.*
24: em.Ph.*
25: em.Pl.*
26: em.Ro.*
27: em.Sts.*
28: em.Un.*
29: em.Vi.*
30: em.Htg.Hum.*
31: em.Htg.Inv.*
32: em.Htg.Other.*
33: em.Htgo.Inv.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 2 | 1442 | 100.0 | 1442 | 6 | AR072690 | Sequence |
| 3 | 1442 | 100.0 | 1442 | 6 | AR073235 | Sequence |
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| 5 | 1301.4 | 90.2 | 124001 | 9 | HS886K2 | Human DNA |
| 6 | 1080.2 | 74.9 | 1381 | 6 | AR051479 | Sequence |
| 7 | 1080.2 | 74.9 | 1381 | 6 | AR072619 | Sequence |
| 8 | 1080.2 | 74.9 | 1381 | 6 | AR073164 | Sequence |
| 9 | 592.2 | 41.1 | 160714 | 2 | AC087434 | Pan trogl |
| 10 | 590.4 | 40.9 | 99370 | 6 | AC005057 | Homo sapi |
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| 12 | 587.8 | 40.8 | 65608 | 6 | AX332242 | Sequence |
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| 26 | 554.6 | 38.5 | 42665 | 9 | AC011559 | Homo sapi |
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| 40 | 538.2 | 37.3 | 191946 | 9 | CNS01DTR | Human chr |
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| 43 | 535.2 | 37.1 | 134896 | 9 | AC006571 | Homo sapi |
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| 45 | 534.8 | 37.1 | 112337 | 2 | AC011509 | Homo sapi |

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| KEYWORDS | Unknown. | | | | | |
| SOURCE | Unknown. | | | | | |
| ORGANISM | Unknown. | | | | | |
| REFERENCE | 1 (bases 1 to 1442) | | | | | |
| AUTHORS | de la Monte,S. and Wands,J.R. | | | | | |
| TITLE | Neural thread protein gene expression and detection of Alzheimer's | | | | | |
| JOURNAL | Patent: US 5830670-A 120 03-NOV-1998; | | | | | |
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Matches 1442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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| Db | 661 | GGCGAATCTTGGCTCACTGACAACTCTGCTCTCCCGGTTCAAGTAAATCTCTGGCCCA | 720 |
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| Db | 721 | GCTCTCTAGTAGGTGGGACACAGGGGCCACACAGCCTAGTAAATTTTTTGTATTTT | 780 |
| Oy | 781 | taagaaatgagatgggtttacaacatgtctgcagagttgattcttgatctctctggaactgtgac | 840 |
| Db | 781 | TAGTAGAATGGGTTTACCATGTTGCCAGGTGTGATCTTGATCTTGATATC | 840 |
| Oy | 841 | tgcctgcctcgcgcctcccaaatgtctgagatlaaagagctgagccaacagcgcgcgagta | 900 |
| Db | 841 | TGCCTGCCTCGGCTCCCAAAAGTGGGATATACAGGCTGAGCCACACAGCCGGCGTTA | 900 |
| Oy | 901 | ttttaatttttctgttttttggaaatggaatctcaactctgttaccagagctgagatgaaat | 960 |
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| ACCESSION | AR072690 | | | |
| VERSION | AR072690.1 | GI:9999454 | | |
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| SOURCE | Unknown. | | | |
| ORGANISM | Unknown. | | | |
| REFERENCE | 1 (bases 1 to 1442) | | | |
| AUTHORS | de la Monte,S. and Wands,J.R. | | | |
| TITLE | Neural thread protein gene expression and detection of alzheimer's disease | | | |
| JOURNAL | Patent: US 5948634-A 120 07-SRP-1999; | | | |
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| ACCESSION | AF010144 | | |
| VERSION | AF010144.1 | | |
| KEYWORDS | GI:3002526 | | |

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| SOURCE ORGANISM | Human. <i>Homo sapiens</i> |
| REFERENCE AUTHORS | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 1442) |
| TITLE | Monte,S.M., Ghanbari,K., Frey,W.H., Behestli,I., Averbach,P., Hauser,S.L., Ghanbari,H.A., and Wands,J.R. Characterization of the AD7C-NTP cDNA expression in Alzheimer's disease and measurement of a 41-kD protein in cerebrospinal fluid |
| JOURNAL MEDLINE | J Clin. Invest. 100 (12), 3093-3104 (1997) |
| PUBMED | 93899567 |
| REFERENCE AUTHORS | 2 (bases 1 to 1442) |
| TITLE | de la Monte,S.M. and Wands,J.R. |
| JOURNAL | Direct Submission |
| FEATURES | Submitted (24-JUN-1997) MGH Cancer Center, Massachusetts General Hospital, 149 13th Street, Room 7308, Charlestown, MA 02129, USA |
| Source | Location/Qualifiers 1..1442 |

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| Db | 181 | TAGAGATGAGATTTCATGTTGTTCATGTTGTTCAGGCTGGTCTCGAATCTCCGACCTCAGATATAC | 240 | | |
| QY | 241 | ccctcgatccggcctccccaagtgtatagatcacagactgtgcacacatgcccgccttgc | 300 | | |
| Db | 241 | CCTCGGCTCGGCGCCCAAGTCTGTGAATCAGAGACTTGGCCACATGCCCCGGCTTGGC | 300 | | |
| QY | 301 | tggctaatttttgttgaagaacaggtttcacctgatatgtgcccgaacttggtctccpaga | 360 | | |
| Db | 301 | TGGCTAATTTTGTGTGTAAGAAACAGGGTTTCACTGATGTGCCCAACACTGATCTCCTGAC | 360 | | |
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4788. .4878
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5181. .5484
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5485. .5653
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5654. .5788
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5789. .6089
repeat_region /note="AlusP repeat: matches 1. .297 of consensus"
6090. .6260
repeat_region /note="AlusX repeat: matches 132. .312 of consensus"
6282. .6580
repeat_region /note="AluY repeat: matches 1. .296 of consensus"
6596. .7224
repeat_region /note="L2 repeat: matches 1995. .2748 of consensus"
7225. .7293
repeat_region /note="Aluub repeat: matches 152. .220 of consensus"
7294. .7733
repeat_region /note="L2 repeat: matches 1543. .1995 of consensus"
7735. .8048
repeat_region /note="Alusg repeat: matches 1. .279 of consensus"
8050. .8358
repeat_region /note="AluY repeat: matches 1. .309 of consensus"
8420. .8987
repeat_region /note="L2 repeat: matches 873. .1539 of consensus"
8998. .9090
repeat_region /note="L2 repeat: matches 1543. .1627 of consensus"
9060. .9105
repeat_region /note="L2 repeat: matches 827. .872 of consensus"
9180. .9279
repeat_region /note="MIR repeat: matches 35. .139 of consensus"
9489. .9671
repeat_region /note="MERSA repeat: matches 1. .189 of consensus"
10046. .10047
misc_feature /note="Tandem repeat. Region of tandem repeat each element
48 base pairs and typical sequence:
GAGGACACTGTCTAGATATATACATCCCTCTGATTC AGGTTGCT
Restriction digest information (HINDIII) suggests 3 copies
of the repeat are missing from this assembly."
10530. .10594
repeat_region /note="L2 repeat: matches 2676. .2750 of consensus"
10604. .10678
repeat_region /note="MIR repeat: matches 12. .87 of consensus"
11227. .11408
repeat_region /note="MIR repeat: matches 20. .222 of consensus"
11470. .11776
repeat_region /note="Alusg repeat: matches 1. .311 of consensus"
12244. .12546
repeat_region /note="AluY repeat: matches 1. .303 of consensus"
13021. .13318
repeat_region /note="AlusX repeat: matches 1. .295 of consensus"
13319. .13389
repeat_region /note="MERSA repeat: matches 73. .137 of consensus"
13390. .13685
repeat_region /note="Alusg repeat: matches 1. .297 of consensus"
13686. .13730
repeat_region /note="MERSA repeat: matches 27. .73 of consensus"
13759. .13823
repeat_region /note="L2 repeat: matches 2146. .2215 of consensus"
13824. .13959
repeat_region /note="FLAM_A repeat: matches 1. .133 of consensus"
13960. .14115
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14221. .14479
repeat_region /note="MERS21B repeat: matches 156. .456 of consensus"
14600. .14709
repeat_region /note="MIR repeat: matches 49. .98 of consensus"
14953. .15263
repeat_region /note="AlusX repeat: matches 1. .311 of consensus"
15508. .15684
repeat_region /note="MIR repeat: matches 2. .218 of consensus"
15724. .15857
repeat_region /note="FLAM_A repeat: matches 1. .133 of consensus"
15961. .16086
repeat_region /note="FAM repeat: matches 12. .163 of consensus"
16087. .16394
repeat_region /note="Alusg repeat: matches 3. .310 of consensus"
16395. .16409
repeat_region /note="FAM repeat: matches 163. .174 of consensus"
16722. .16804
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16908. .17483
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17679. .17881
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18516. .18927
repeat_region /note="MIRID repeat: matches 114. .505 of consensus"
18928. .19043
repeat_region /note="FLAM_C repeat: matches 1. .116 of consensus"
19044. .19149
repeat_region /note="MIRID repeat: matches 6. .114 of consensus"
19750. .20088
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20170. .20479
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20639. .20946
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20959. .21232
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21240. .21532
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21534. .21837
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21839. .21936
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21952. .22283
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22303. .22605
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22665. .22969
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DB 6086 ttttttttttgatgaggttctgtctgttgcagagctgagtgcaatgagcaaa 6027
QY 61 tctcagctcaccgcaaccccgctccggttcaagagatctctcgcctcagctccc 120
DB 6026 tctcagctcaccgcaaccccgctccggttcaagagatctctcgcctcagctccc 120
QY 121 cagtgctggttaccagagcatgacacacgcgcgcgtatatttatttttttttag 180
DB 5966 tctcagctggttaccagagcatgacacacgcgcgcgtatatttatttttttttag 5907

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Db 777 GTATTTTAGTAGAGATGGGGTTTACACATGTTGCCAGTTGATCTTGTGACC 836
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 Db 837 TTGTGATCTGCTGCTGCGCTACCCAAAGTCTGGATTACAG--GTGCTGACTCCAC 894
 QY 892 cccgcttatttatttatttctgttctgttgaatgaaatcactctgtttaccagctg 951
 Db 895 GCCGGCCATTTTAAATTTTGTGTTGAAATGAAATCTCACTGTTTACCAGTGC 954
 QY 952 gagtgaatgccaatctcgctcactgcgaacctctgcccggggtcgaagcattct 1011
 Db 955 GAGTGCATATGG--CAAAATCTCGCTACTGCAACCTCTGCTCCGGG--TCAAGGATTTCT 1012
 QY 1012 cctgtctcagcctcccaagcagctggaattacgagcagctgcacacacccgctaatt 1071
 Db 1013 CCGTCTCAGCCTCCCAAGCACTGGGATTACGGG--ACCTGCACACACCCCGCTAATT 1070
 QY 1072 ttgtatttcatatagagcgagggtttcaacatatttctcagct--ggtctcaactct 1130
 Db 1071 TTTGTATTTTCAATTAGAGCGGGGTTT--ACCATATTTTTCAGAGCTGGGTTCTAAACTCTCT 1128
 QY 1131 gacctgaagtgcacacacgctgcctcgaagctcgaagctgctggaattacagcgatgacca 1190
 Db 1129 GACCTCAGGTGACCCACGCTGCTCAGCTTCCAAAGTCTGGGATTACAGGGGTGAGCCA 1188
 QY 1191 cctcaccagcgagctaatattagataaaaaatgtagcaatgaggggtcttctgtatgt 1250
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 QY 1311 cagcagctacatctttaaagacttaccatcttattttagtactagaagaataaca 1370
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 QY 1371 ataacaatgccaac 1385
 Db 1367 ATAAACATGTCAAC 1381
 RESULT 8
 LOCUS AR073164 1381 bp DNA linear PAT 28-AUG-2000
 DEFINITION Sequence 49 from patent US 5948888.
 ACCESSION AR073164
 VERSION AR073164.1 GI:999927
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 REFERENCE 1 (bases 1 to 1381)
 AUTHORS de la Monte, S. and Wands, J.R.
 TITLE Neutral thread protein gene expression and detection of Alzheimer's disease
 JOURNAL Patent: US 5948888-A 49 07-SEP-1999;
 FEATURES
 source Location/Qualifiers
 1..1381
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 BASE COUNT 296 a 384 c 302 g 399 t
 ORIGIN
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 Matches 1317; Conservative 0; Mismatches 53; Indels 25; Gaps 18;
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RESULT 9
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LOCUS Pan troglodytes clone RP43-90F9, WORKING DRAFT SEQUENCE, 12
DEFINITION
AC087434
VERSION AC087434.1 GI:12039251
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE chimpanzee.
ORGANISM Pan troglodytes
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Pan.
1 (bases 1 to 160714)
REFERENCE
AUTHORS Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B., Blakesley,R.W.,
Boutard,G.G., Brinkley,C., Brooks,S., Dietrich,N.L., Grante,S.,
Guan,X., Gupta,J., Ho,S.-L., Idol,J.R., Karlins,E., Lee-Lin,S.-Q.,
Legaspi,R., Lim,M., Maduro,Q.L., Maduro,Y.B., Mastello,C.,
Mastrian,S.D., McCloskey,J.C., McDowell,J., Pearson,W., Prasad,A.,
Shcherbakov,Y., Snyder,B., Stantrilpop,S., Thomas,J.W., Thomas,P.J.,
Tiongson,E.E., Touchman,J.W., Tsurgeon,C., Vogt,J.L., Walker,M.A.,
Wetherly,K.D., Zhang,L.-H. and Green,E.D.
NISC Comparative Sequencing Initiative
Unpublished
2 (bases 1 to 160714)
Green,E.D.
Direct Submission
Submitted (05-JAN-2001) NIH Intramural Sequencing Center, 8717
Groveomont Circle, Gaithersburg, MD 20877, USA
COMMENT
----- Genome Center
Center: NIH Intramural Sequencing Center
Center code: NISC
Web site: http://www.nisc.nih.gov
Contact: nisc_mouse@nigrl.nih.gov
----- Project Information
Center project name: aod
Center clone name: 090F09
----- Summary Statistics
Sequencing vector: plasmid; n/a; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 15263 bases at least Q40
Consensus quality: 154387 bases at least Q30
Consensus quality: 155752 bases at least Q20
Insert size: 13700; agarose-fp
Insert size: 13700; pulse-field-gel
Insert size: 159614; sum-of-ctrls
Quality coverage: 9.32x in Q20 bases; agarose-fp
Quality coverage: 9.32x in Q20 bases; pulse-field-gel
Quality coverage: 8.00x in Q20 bases; sum-of-ctrls

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* NOTE: This is a 'working draft' sequence. It currently consists of 12 contigs. The true order of the pieces is not known and their order in this sequence record is

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* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
1
2808: contig of 2808 bp in length
2809: gap of unknown length
6190: contig of 3282 bp in length
6191: gap of unknown length
6291: gap of 6248 bp in length
12539: gap of unknown length
12638: gap of 8177 bp in length
20815: gap of unknown length
20915: gap of 8066 bp in length
28981: contig of 8066 bp in length
29082: gap of unknown length
40699: contig of 11618 bp in length
40700: gap of unknown length
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49520: contig of 8721 bp in length
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62547: gap of unknown length
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ORIGIN

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QY 1240 tctgtcagtgctcagcagtgtagtcaactctgctcagctcagctcagctcag 1299
Db 133812 TCTCATGTTGTTGTCAGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 133871
QY 1300 gccac 1304
Db 133872 GCTTC 133876

RESULT 10
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LOCUS Homo sapiens BAC clone CTB-52H6 from 7q11.2-q22, complete sequence.
DEFINITION AC005057
ACCESSION AC005057.2 GI:6587915
VERSION HTG.
KEYWORDS human.
SOURCE human.
ORGANISM Homo sapiens
Chordata; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 99370)
Sulston, J.E. and Waterston, R.
Toward a complete human genome sequence
genome Res. 8 (11), 1097-1108 (1998)
99065792
2 (bases 1 to 99370)
Dauphin, S., Stoneking, T. and Ahrens, C.
The sequence of Homo sapiens BAC clone CTB-52H6
Unpublished
3 (bases 1 to 99370)
Waterston, R.H.
Direct Submission
Submitted (12-JUN-1998) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
4 (bases 1 to 99370)
Waterston, R.H.
Direct Submission
Submitted (16-DEC-1999) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
5 (bases 1 to 99370)
Waterston, R.
Direct Submission
Submitted (30-SEP-2000) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
On Dec 16, 1999 this sequence version replaced gi:3512934.
----- Genome Center
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu/gsc
Contact: sapiens@wustl.wustl.edu
----- Summary Statistics
Center project name: H_RG052H06

```

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by

restriction digest.

MAPPING INFORMATION:
The sequence of this clone was established as part of a mapping and sequencing collaboration between the NIGRI Chromosome 7 Mapping Project (Eric D. Green, Director), John D. McPherson in the Department of Genetics (Washington University), and the Washington University Genome Sequencing Center. For additional information about the map position of this sequence, see
<http://www.nhgri.nih.gov/DIR/CTB/CHR7>, send
<mailto:sgreen@nhgri.nih.gov>, or see <http://genome.wustl.edu/gsc>

SOURCE INFORMATION:
Clone CTB-52H6 is from the first release of the human BAC library CTB-978SK-B. The library contains cloned DNA from the male fibroblast cell line 978SK. See: Shizuya et al., Proc. Natl. Acad. Sci. USA 89:8794-7 (1992); U-J. Kim et al., Genomics 34:213-8 (1996). This clone is available from Research Genetics, Inc. (<http://www.resgen.com>).
VECTOR: pBeloBAC11
Selection: chloramphenicol

NEIGHBORING SEQUENCE INFORMATION:
The clone sequenced to the left is CTA-270D13. Actual start of this clone is at base position 135330 of CTA-270D13; actual end is at base position 99370 of CTB-52H6.

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 QY 404 caggctgtagcagcgtgctgagctcttatttttttttttttttttttttttttttttttt 463
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 Db 38927 ACGCCGCTAATTTTTTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTT 38868
 QY 1118 gtctcaaacctcctgagcctcagctcagctcagctcagctcagctcagctcagctcag 1177
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RESULT 12
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 ACCESSION AX332242
 VERSION AX332242.1 GI:18122876
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 ORGANISM human.
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE
 1 (sites)
 Young, P.E., Augustus, M., Carter, R.C., Eder, R., Endress, G.,
 Horrikan, S., Soppet, D.R. and Weaver, Z.
 Cancer gene determination and therapeutic screening using signature
 gene sets
 Patent: WO 0194629-A 2751 13-DEC-2001;
 TITLE
 JOURNAL
 Avalon Pharmaceuticals (US)
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Best Local Similarity 70.6%; Pred No. 3e-164;
Matches 940; Conservative 0; Mismatches 347; Indels 44; Gaps 10;

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||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
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Thu Apr 25 08:07:04 2002

us-09-964-678a-1.rge

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 24, 2002, 17:03:15 ; Search time 1503.67 Seconds
(without alignments)
12943.405 Million cell updates/sec

Title: US-09-964-678A-1

Perfect score: 1442
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 13736207 seqs, 6748477542 residues

Total number of hits satisfying chosen parameters: 27472414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

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2: em_esthum:*
3: em_estlin:*
4: em_estlmu:*
5: em_estlov:*
6: em_estlpl:*
7: em_estlro:*
8: em_hlc:*
9: gb_estl:*
10: gb_estl2:*
11: gb_hlc:*
12: gb_gss:*
13: em_gss_hum:*
14: em_gss_inv:*
15: em_gss_pln:*
16: em_gss_vrl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 7 | 368.8 | 25.6 | 970 | 10 | BM468547 |
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| 10 | 360 | 25.0 | 1148 | 9 | AV761207 |
| 11 | 359.8 | 25.0 | 667 | 12 | AG150197 |
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| 17 | 355 | 24.6 | 740 | 12 | A0878530 |

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| 20 | 350 | 24.3 | 737 | 9 | AV700545 | AV700545 | AV700545 |
| 21 | 346.6 | 24.0 | 1875 | 11 | BC009270 | BC009270 | Homo sapi |
| 22 | 345.2 | 23.9 | 1771 | 11 | BC018833 | BC018833 | Homo sapi |
| 23 | 345.2 | 23.9 | 749 | 9 | AV699709 | AV699709 | AV699709 |
| 24 | 344.8 | 23.9 | 792 | 10 | BI225234 | BI225234 | BI225234 |
| 25 | 343.6 | 23.8 | 738 | 10 | BS546184 | BS546184 | BS546184 |
| 26 | 343.6 | 23.8 | 758 | 10 | BS653032 | BS653032 | BS653032 |
| 27 | 342.8 | 23.8 | 781 | 10 | BI861844 | BI861844 | BI861844 |
| 28 | 341.2 | 23.7 | 617 | 10 | BS289847 | BS289847 | BS289847 |
| 29 | 341.2 | 23.7 | 714 | 10 | BS289847 | BS289847 | BS289847 |
| 30 | 340.6 | 23.6 | 634 | 12 | A0543763 | A0543763 | RPCT11-3 |
| 31 | 340.6 | 23.6 | 648 | 9 | AV762783 | AV762783 | AV762783 |
| 32 | 340.4 | 23.6 | 621 | 12 | A0636660 | A0636660 | RPCT11-4 |
| 33 | 339.6 | 23.6 | 1915 | 11 | BC012949 | BC012949 | BC012949 |
| 34 | 338.4 | 23.5 | 660 | 12 | A0381918 | A0381918 | RPCT11-13 |
| 35 | 337.6 | 23.5 | 607 | 12 | A0583978 | A0583978 | RPCT11-4 |
| 36 | 337.2 | 23.4 | 691 | 10 | BS992240 | BS992240 | BS992240 |
| 37 | 335.6 | 23.3 | 839 | 12 | AQ743787 | AQ743787 | HS-5501 A |
| 38 | 335.6 | 23.2 | 580 | 12 | AQ289063 | AQ289063 | RPCT11-13 |
| 39 | 335 | 23.2 | 616 | 10 | BS028665 | BS028665 | BS028665 |
| 40 | 334.8 | 23.2 | 839 | 9 | AV756726 | AV756726 | AV756726 |
| 41 | 334.6 | 23.2 | 990 | 9 | AM600804 | AM600804 | N26-20 Hu |
| 42 | 334 | 23.2 | 615 | 12 | AG144700 | AG144700 | Pan trogl |
| 43 | 334 | 23.2 | 688 | 9 | AV762145 | AV762145 | AV762145 |
| 44 | 333.6 | 23.1 | 973 | 10 | BF968610 | BF968610 | 602271031 |
| 45 | 333.2 | 23.1 | 5528 | 12 | AB012089 | AB012089 | Homo sapi |

ALIGNMENTS

| | | | | |
|---|---------|------|--------|-----------------|
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| LOCUS BC011119 | | | | |
| DEFINITION Homo sapiens, clone IMAGE:3047997, mRNA. | | | | |
| ACCESSION BC011119 | | | | |
| VERSION BC011119.1 GI:15029795 | | | | |
| KEYWORDS | | | | |
| SOURCE human. | | | | |
| ORGANISM Homo sapiens | | | | |

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 1842)

REFERENCE

Submitted (25-JUL-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2550, USA

NIH-MGC Project URL: <http://mgc.ncl.nih.gov>
Contact: MGC help desk
Email: cgapbs-remail.nih.gov

Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Baylor College of Medicine Human Genome Sequencing Center
Center code: BCM-HGSC
Web site: <http://www.hgsc.bcm.tmc.edu/cdna/>

Contact: Villaloboscm.tmc.edu.
Villalobos, D.K., Luna, R.A., Hale, S.M., Hulyk, S., Lu, X., Garcia, A.M., Holloway, M., Telford, B., Hodgson, A., Bouck, J., Yu, W., Muzny, D.M., Gibbs, R.A.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
Series: IRAC Plate: 19 Row: 0 Column: 1
This clone has the following problem: Incomplete processing.

FEATURES

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| Db | 570 | TTTTATTGTTTTGAAATGGAATGCGGCTCTGTGCGCCAGGCTGGAATGCAATGGTGTAT | 6299 |
| QY | 62 | cttaagctaacggaacctccgcctccgcgggttcaagcgattctcgtctaagctccc | 121 |
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| QY | 122 | atgtagctggaattaaagcatgtgacccaagctccgcgttaattttgattttttta | 181 |
| Db | 690 | AGTAGTGGGACTACTGGGGCCCGCCACACGCCCGGCTAATTTT-TTTCTAATTTTATG | 748 |
| QY | 182 | agaaatgatgattcttcacatgttgtgtcagcgctgtcgaatctccagccagatgac | 241 |
| Db | 749 | AGAGAGCGGGTTTCCACCGGTTAGCCAGAGATGATCTTATGATCTGTACCT--TGTATTC | 806 |
| QY | 242 | ctccgtctcgcgtccccaagtctagatatacagaactgtgccaacatgcccgcgtctgct | 301 |
| Db | 807 | ACCTGCTCTGGCTCCCAAATGCTGGGATTTACAGAGTGAAGCCACCGCCCGGCTTA | 866 |
| QY | 302 | ggctaattttgtgtagaacaagtggttcaatgtatgtcccaagctg-gtccctgaagc | 360 |
| Db | 867 | TTTTATTATTTTAAATAGAGATGTCTACATATTTCCCGGACTAGTCTCAAACTCTCGGG | 926 |
| QY | 361 | tcaagcagttcaacctgtcgtcagctccccaagtgctggaattacag--gcgtgcaagcgt | 418 |
| Db | 927 | TCAAACCAATCTCCACAT-T-GGCTCCCAAAGTCTGGGATTCAGATTCGAGCCACTGT | 985 |
| QY | 419 | gcttgcccttttaattttttttttaagaacaagtgctccaccttaaccagaatga | 478 |
| Db | 986 | GGCTGGCTCTTTTTTTTTTTTGAATAGA-----ATCTCCCTGTCTACCCAGGTTGG | 1038 |
| QY | 479 | agtgcagtggtgtgatacaagctcaact-----gagcccttcaac | 517 |
| Db | 1039 | ACTGTAGTGGTGCATCTCAGCTCTACGCAACTCGGCTGATTGTCAGAGCCCAACTCTCGTC | 1099 |
| QY | 518 | tctgtagaatcaagc-accctctccgtccctcagctcccaagtgaactgtggaaccaagatgc | 576 |
| Db | 1099 | TCCTGGGTTCAAGCAATTTCTCTGCTCTACAGCTCCCGAAGTGAAGATTAAAGCGCAT | 1156 |
| QY | 577 | acacatacaactgtgcaattttattttttttaattttaatttttgaacagagctcaact | 636 |
| Db | 1159 | GCCACACAGCTCTGGCTAAATTTGTGTGTTTTTTTTTTTGTGAGACAGTCTCT--CT | 1215 |
| QY | 637 | ctgtgcacacagagctggtggtcagtggtgcgaattttgtctcaactgtcaacctgtcctccg | 696 |
| Db | 1216 | CTGTGCA-CCAGGCTGGAGTCAAGTGCATGATCTTGGTGCCTACTGTGAACTCCGCTCCCG | 1274 |
| QY | 697 | ggttcaagttattctctgtcccgacgctctctgtagctgctggaactacaagcgcccaacac | 756 |
| Db | 1275 | GGTTTCAAGCATTTCTCTG-GCCAGCTCTCAAGTAGCTGGGACTACAGCGCCCGCCAC | 1333 |
| QY | 757 | ggctagctaat-tttttgtatttttaagtagagatggg-ttaccatgttgcgcaagtt | 814 |
| Db | 1334 | CATGCCCGGCTAAATTTTGTATTTTATGTAAGAGTGGGGGTTTACACATGTTGGCCAGAT | 1393 |
| QY | 815 | gattctgattctcgagactgtgattctgcctgcctccgcgtcccaagtgtctgatatc | 874 |
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|-----------------------|--------------|-------------------|----------------|------------|
| Query Match | 27.1% | Score 391.4 | DB 12 | Length 877 |
| Best Local Similarity | 79.4% | Pred. No. 2.3e-76 | | |
| Matches 514 | Conservative | 0 | Mismatches 126 | Indels 7 |
| | | | | Gaps 4 |

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| 568 | aagacatgaccactaacccctgctaatattttatttttaatttttgcagacaga | 627 |
| | | |

| Db | Accession | Gene | Species | Accession | Gene | Species | Accession | Gene | Species |
|------------|---|---|---------|-----------|-----------------|---------|-----------|------|---------|
| Db | 680 | AACACCTCCCAAGTAAGATGCTTTTGGTTATTTTGGTTTGTGTTGAGACAGA | 621 | | | | | | |
| Qy | 628 | gtctcaactctgttcaaccagcttgagtgcaatgtgcgtcaactctgtcaactc | 687 | | | | | | |
| Db | 620 | GTCTC-ACCTTGATGAGCCAGCTGGAGTACAGTGTCACATTCACGTCAACCTT | 562 | | | | | | |
| Qy | 668 | tgctcccgagttcaagtattctccctgcgcacagccctcagtagtctgtgactaaggc | 747 | | | | | | |
| Db | 561 | CGCCTCCAGGTTCAAGCAATTCCTTGGCTCAGCCTCCCACTAGCTGGAGTACAGG | 502 | | | | | | |
| Qy | 748 | gc---ccacacagctagctaattttttgtatatttagtagagatgggttcaacatgt | 804 | | | | | | |
| Db | 501 | GCGCTCCACACAGCCGACGACCTAATTTTATATTTTACTAGACACA-6GGTTCCACATGT | 443 | | | | | | |
| Qy | 805 | tcgcagagttgatcttgaatctctgagact--tgagctctgcctgcctgcgcctcccaag | 862 | | | | | | |
| Db | 442 | TGGCCAGGCTTGTCTTGACTCTGACCTCAGGCGATCCGTACCTTGGCTCCCAAG | 383 | | | | | | |
| Qy | 863 | tgctggagttcaagcgtgagccacacagcccgagctattttaattttgtttgttga | 922 | | | | | | |
| Db | 382 | TGCTGGAGTATTAACCGTGAGCGACCGGACCCAAACGATATTTTATTTTATTTTGA | 323 | | | | | | |
| Qy | 923 | aatggaaatcaactctgttaccagagctgagtgcaatggccaactctcgctcactgca | 982 | | | | | | |
| Db | 322 | GATGAGCTCTCACTCTGTTACCCAGCGTGAGTGCAGTGACGATCTTGCTCACC | 263 | | | | | | |
| Qy | 983 | acctctgcctcccgagctcaagcagattctcctgtctcagctcccaagcagctgagata | 1042 | | | | | | |
| Db | 262 | ACCTCTGCTCTCCAGGTTCAAGCGATTTCTCTGCTCAGCTCCCGAGTACTGSGAATA | 203 | | | | | | |
| Qy | 1043 | cgggcaactctgcacacacaccccgctaattttgtatatttcaatagaaggcgggttcaac | 1102 | | | | | | |
| Db | 202 | CGGCGACGTGACCAACCATATGCGCGCTAATTTTGTATTTTATGTAAGACAGGGTTTGGC | 143 | | | | | | |
| Qy | 1103 | atatctgttagctgtgtctcaactcctcagctcagagtgagaccagctcctcagctcgc | 1162 | | | | | | |
| Db | 142 | ATATGTTCCAGGGTTGTCTCGAATCTTCACTTCACTCAGTGATGTGCTTACCTCAGCTCC | 83 | | | | | | |
| Qy | 1163 | aaagtctcggagattacagagcgtgagccactaccacagccggagctat | 1209 | | | | | | |
| Db | 82 | AAAGTGTGGATTATAGCATGAGCCACCATATGCGCCAGTAAT | 36 | | | | | | |
| RESULT | 3 | | | | | | | | |
| LOCUS | AV762220/c | 1345 bp | mRNA | linear | EST 19-OCT-2000 | | | | |
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| ACCESSION | AV762220 | | | | | | | | |
| VERSION | AV762220.1 | GI:10920068 | | | | | | | |
| KEYWORDS | EST. | | | | | | | | |
| SOURCE | human. | | | | | | | | |
| ORGANISM | Homo sapiens | | | | | | | | |
| REFERENCE | Makarewicz, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eumetazoa; Euthera; Primates; Catarrhini; Homiidae; Homo. | | | | | | | | |
| AUTHORS | 1 (bases 1 to 1345) Gu,J., Zhao,M., Huang,Q., Xu,X., Li,Y., Peng,Y., Song,H., Xiao,H., Gu,Y., Li,N., Qian,B., Liu,F., Ou,J., Gao,X., Cheng,Z., Xu,Z., Zeng, Yang,Y., Gao,G., Zhang,Q., Chen,S., Han,Z. and Chen,Z. | | | | | | | | |
| TITLE | Homo sapiens cDNA MDS clones | | | | | | | | |
| JOURNAL | Unpublished (2000) | | | | | | | | |
| COMMENT | Contact: Zeguang Han Chinese National Human Genome Center at Shanghai 351 Guo Shoujing Road, Zhanjiang Hi-Tech Park, Pudong, Shanghai 201203, P. R. China Tel: 86-21-50801919(ex.45) Fax: 86-21-50801922 Email: hanzg@cnhg.sh.cn This clone is available at CHGC in Shanghai. Location/Qualifiers 1..1345 /organism="Homo sapiens" /db_xref="taxon:9606" | | | | | | | | |
| FEATURES | Source | | | | | | | | |

[illegible]

| | | | |
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| OY | 1141 | gaccacactgccttaagcctcccaagaagcgctggagttagtcaggcgatgagccacctaccag | 1200 |
| Db | 3678 | GATCCACTGCTCAGCTCCCAAAATTGTGGATTTACAGCGCTGAGCACACCACACCCGG | 3737 |
| OY | 1201 | cc 1202 | |
| Db | 3738 | CC 3739 | |
| <hr/> | | | |
| RESULT | 9 | | |
| AV700988 | | 839 bp | mRNA linear EST 16-JAN-2002 |
| LOCUS | AV700988 | | |
| DEFINITION | AV700988 GK C Homo sapiens cDNA clone GKC/AE01.3', mRNA sequence. | | |
| VERSION | AV700988 | | |
| KEYWORDS | GI:10302959 | | |
| SOURCE | EST. | | |
| ORGANISM | human. | | |
| REFERENCE | Homo sapiens | | |
| AUTHORS | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 839) Xu,X., Huang,J., Xu,Z., Qian,B., Zhu,Z., Yan,Q., Cai,T., Zhang,X., Xiao,H., Qu,J., Liu,F., Huang,Q., Cheng,Z., Li,N., Du,J., Hu,W., Shen,K., Lu,G., Fu,G., Zhong,M., Xu,S., Gu,W., Huang,W., Zhao,X., Hu,G., Gu,J., Chen,Z. and Han,Z. Insight into hepatocellular carcinogenesis at transcriptome level by comparing gene expression profiles of hepatocellular carcinoma with those of corresponding noncancerous liver proc. Natl. Acad. Sci. U.S.A. 98 (26), 15089-15094 (2001) | | |
| TITLE | Contact: Zeguang Han | | |
| JOURNAL | Chinese National Human Genome Center at Shanghai | | |
| MEDLINE | 351 Gu Shoujing Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai 201203. P. R. China Tel.: 86-21-50801919(ex.45) Fax: 86-21-50801922 Email: hanzg@chgc.sh.cn | | |
| COMMENT | This clone is available at CHGC in Shanghai. | | |
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| | /clone="GKCAE01" | | |
| | /clone_1lb="GKC" | | |
| | /tissue_type="hepatocellular carcinoma" | | |
| | /dev_stage="Adult" | | |
| | /lab_host="SOLR" | | |
| | /note="vector: pBluescript sk(-); Site_1: EcoRI; Site_2: XhoI" | | |
| PAGE COUNT | 144 a 259 c 203 g 231 t 2 others | | |
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| Best Local Similarity | 81.4%; Pred. No. 7e-71; | | |
| Matches 499; Conservative | 0; Mismatches 101; Indels 13; Gaps | | |
| OY | 602 | tttattttaatttttttgagagacaggtctcaactctgtcacccaagctggaagtacagt | 661 |
| Db | 66 | TTTTTTTTTATTTTTTTTGAGCAGGAGTCG-GGCTCTGTACCCAGCGTAGAGTGCAGCG | 124 |
| OY | 662 | ggcgaactcttggtctaactgaacctctgctctcccgggttacaagtattctctgcgccag | 721 |
| Db | 125 | GCGCGATCTGGCTCACTGCAAGCTCTTCTCCCGGGTTTACCCCATTCCTCGGCCCAA | 184 |
| OY | 722 | cctctcagtagctggaactacagag--ccacacagcctagctaattttttgtatt | 778 |
| Db | 185 | CCATCCAGTAGCTGTGAATAACAGGCGTTCGCCACACGCCGCGACTAATTTTTGTATT | 244 |
| OY | 779 | tttagtagaaatggg-ttacacatgttcacaggttatcatctgatctcgcgaactgtg | 837 |
| Db | 245 | TTTAGTAGAACGGGGGTTTACCGGTGTACGAGATGCTGTGATCTCTCGACTCGTG | 304 |

| QY | 838 | atcgcgtcgtcctcgcctcccaaaagtctcgtgattaaagcgfagagccaccacgacggc | 897 |
|-----------------------|---|--|-----------------------------|
| Db | 305 | ATTCGCTGCTCGGCGCTCCCAAGTCTGGGATTACAGGCTTGAGCCACCGACCGCGC | 364 |
| QY | 898 | ttattttaactttgttgtttgaatagaaatcaactcgttaccagaagcttggagtgc | 957 |
| Db | 365 | CTCTTATTTTTTT-----TTTGAGATGAGAGTCTCACAGTGCACCTCGGCGTGAAGTGC | 418 |
| QY | 958 | aatggccaacatctcgtcactcgtcaactcgtcctcgcctccgggctcaagcgaattctctgtc | 1017 |
| Db | 419 | AGTGAGAGGATCTCGGCTCACTGCACCTCCGNCCTCCCTGGTTTCAGAGATTCTCCGTC | 478 |
| QY | 1018 | tcagcc-tcccaagcagcttggtgattacggagcctgcacacaccccgcta-attttg | 1075 |
| Db | 479 | TCAGCTTTTCCAGAGTGGTGGGATTACAGGTGCCACACACACCGCTGGCTAGTTTTTG | 538 |
| QY | 1076 | tatttcattagagcgaggtgttcacacatatttgcaggtcgtgtctcaaacctcgaact | 1135 |
| Db | 539 | TATTTTATGGGCAAGATGGGGTTTATACATGCTGGCCAGGCTGTCTTGAATCTCTGACAT | 598 |
| QY | 1136 | caggtgaaccacgtcgtccagccttccaaatgtctggattacagggcgttggaccactca | 1195 |
| Db | 599 | CAGGTGAACCGCGCCACTTAGTGCCTCCCAAGTGTGGGATTACAGGCTGAGCCACCATTA | 658 |
| QY | 1196 | cccgaccgagctaa 1208 | |
| Db | 659 | CCTGGCGCCGCAAA 671 | |
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| LOCUS | AV761207/c | 1148 bp | linear mRNA EST 19-OCT-2000 |
| DEFINITION | AV761207 MDS Homo sapiens CDNA clone MDSBZH05 5', mRNA sequence. | | |
| ACCESSION | AV761207 | | |
| VERSION | AV761207.1 | GI:10919055 | |
| KEYWORDS | EST. | | |
| SOURCE | human. | | |
| ORGANISM | Homo sapiens | | |
| | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; | | |
| | Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. | | |
| REFERENCE | 1 (bases 1 to 1148) | | |
| AUTHORS | Gu,J., Zhao,M., Huang,Q., Xu,X., Li,Y., Peng,Y., Song,H., Xiao,H., | | |
| | Gu,Y., Li,N., Qian,B., Liu,F., Qu,J., Gao,X., Cheng,Z., Xu,Z., Zeng | | |
| | ,L., Xu,S., Gu,W., Tu,Y., Jia,J., Fu,G., Ren,S., Zhong,M., Lu,G., | | |
| | Yang,Y., Gao,G., Zhang,Q., Chen,S., Han,Z. and Chen,Z. | | |
| | Homo sapiens CDNA MDS clones | | |
| | Unpublished (2000) | | |
| TITLE | Unpublished (2000) | | |
| JOURNAL | Contact: Zenguan Han | | |
| COMMENT | Chinese National Human Genome Center at Shanghai | | |
| | 351 Guoshoujing Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai | | |
| | 201203, P. R. China | | |
| | Tel: 86-21-50801919(ex.45) | | |
| | Fax: 86-21-50801922 | | |
| | Email: hanzg@chgc.sh.cn | | |
| | This clone is available at CHGC in Shanghai. | | |
| FEATURES | Location/Qualifiers | | |
| source | 1..1148 | | |
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| | /db_xref="taxon:9606" | | |
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| | /cell_type="CD34+ hematopoietic stem/progenitor cell" | | |
| | /lab_host="BM25.8" | | |
| | /note="Vector: pTRIPLEX2; Site_1: sfIIA; Site_2: sfIIB" | | |
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| Best Local Similarity | 80.9%; | Pred. No. 1.9e-69; | |
| Matches | 491; Conservative | 0; Mismatches | 99; Indels 17; Gaps |

Thu Apr 25 08:07:06 2002

us-09-964-678a-1.rst

Page 12

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: April 24, 2002, 18:39:56 ; Search time 207.25 Seconds
(without alignments)
11945.914 Million cell updates/sec

Title: US-09-964-678A-1

Perfect score: 1442

Sequence: 1 ttttttttttgcagatgagag.....ttaacaaagcttagagca 1442

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1736436 seqs, 858457221 residues

Total number of hits satisfying chosen parameters: 3472872

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 2 | 1078.6 | 74.8 | 1381 | 15 | AAQ77883 |
| 3 | 1077 | 74.7 | 1381 | 17 | AAT27765 |
| 4 | 517.2 | 35.9 | 33747 | 22 | AAK69279 |
| 5 | 517.2 | 35.9 | 33747 | 22 | AAK73093 |
| 6 | 511.6 | 33.5 | 5262 | 22 | AAK71768 |
| 7 | 511.6 | 33.5 | 5262 | 22 | AAK71769 |
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| 9 | 478.2 | 33.2 | 31853 | 22 | AA198993 |

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| C | 10 | 478.2 | 33.2 | 31853 | 22 | AA163343 | Human kidney relat |
| C | 11 | 477.4 | 33.1 | 11319 | 22 | AA539682 | Genomic sequence # |
| C | 12 | 477.4 | 33.1 | 11319 | 22 | AA590025 | Human digestive sy |
| C | 13 | 475.4 | 33.0 | 14796 | 19 | AA727941 | Survivin gene. Ho |
| C | 14 | 475.4 | 33.0 | 14796 | 22 | AA521523 | DNA encoding human |
| C | 15 | 475.4 | 33.0 | 14796 | 22 | AA447531 | Human Her-3 genom |
| C | 16 | 471.2 | 32.7 | 12542 | 22 | AA526800 | Human genomic DNA |
| C | 17 | 467 | 32.4 | 15041 | 22 | AA535921 | Human cardiovascular |
| C | 18 | 466.8 | 32.4 | 9236 | 22 | AA503689 | Rhesus gene locus: |
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| C | 21 | 461.8 | 32.0 | 12026 | 22 | AAK67211 | Human immune/haema |
| C | 22 | 461.4 | 32.0 | 36221 | 22 | AA500624 | Human death-associ |
| C | 23 | 460.8 | 32.0 | 2368 | 22 | AAK69566 | Human immune/haema |
| C | 24 | 459.4 | 31.9 | 30110 | 22 | AAK69230 | Human digestive sy |
| C | 25 | 457.8 | 31.7 | 160552 | 22 | AAK81036 | Human glycosyl sul |
| C | 26 | 457.4 | 31.7 | 38771 | 22 | AAK81036 | Human immune/haema |
| C | 27 | 456.4 | 31.7 | 16310 | 21 | AAK21086 | Human low adenosin |
| C | 28 | 456.4 | 31.7 | 16310 | 21 | AAK21086 | Human low adenosin |
| C | 29 | 456.4 | 31.7 | 17634 | 21 | AAK21087 | Human adenosine re |
| C | 30 | 456.4 | 31.7 | 17634 | 21 | AAK21087 | Human immune/haema |
| C | 31 | 456.2 | 31.6 | 23130 | 22 | AAK77045 | Human immune/haema |
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| C | 36 | 455 | 31.6 | 161425 | 22 | AAH02340 | Human AKAP10 gene |
| C | 37 | 455 | 31.6 | 162025 | 22 | AAH02339 | Human AKAP10 gene |
| C | 38 | 452.6 | 31.4 | 13161 | 22 | AAK7867 | Human neuroblastom |
| C | 39 | 452.2 | 31.4 | 4077 | 22 | AAK69603 | Human immune/haema |
| C | 40 | 452.2 | 31.4 | 4077 | 22 | AAK69605 | Human immune/haema |
| C | 41 | 452.2 | 31.4 | 10091 | 22 | AAK69350 | Human immune/haema |
| C | 42 | 450 | 31.2 | 21693 | 22 | AAK79930 | Human immune/haema |
| C | 43 | 449.4 | 31.2 | 1235 | 22 | AAK87086 | Human immune/haema |
| C | 44 | 448.6 | 31.1 | 15745 | 22 | AAK79250 | Human immune/haema |
| C | 45 | 448.4 | 31.1 | 16707 | 20 | AAK58061 | Genomic DNA for Hu |

ALIGNMENTS

| | | |
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| AC | AAAT27738; | |
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| XX | | |
| DT | 13-NOV-1996 | (first entry) |
| XX | | |
| DE | Neural thread protein coding sequence. | |
| XX | | |
| KW | Neural thread protein; NTP; diagnosis; detection; | |
| KW | Alzheimer's disease; neuroectodermal tumour; malignant astrocytoma; | |
| KW | monoclonal antibody; binding fragment; ds. | |
| XX | | |
| OS | Homo sapiens. | |
| XX | | |
| XX | | |
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| FT | | /product= Neural thread protein. |
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| XX | | |
| PD | 23-MAY-1996. | |
| XX | | |
| PF | 14-NOV-1995; | 95MO-US17111. |
| XX | | |
| PR | 14-NOV-1994; | 94US-0340426. |
| XX | | |
| PA | (GEHO) GEN HOSPITAL CORP. | |
| XX | | |
| PI | De LA MONTE S, Wands JR; | |

XX WPI; 1996-259865/26.
 DR P-PSDB; AAR95913.
 XX
 PT Detection of neural thread protein in diagnosis of Alzheimer's
 PT disease - also NTP DNA and protein sequences used in gene and
 PT anti-sense therapy
 XX
 PS
 XX
 XX Claim 24; Page 168-170; 238pp; English.
 CC A method for detecting the presence of neural thread protein (NTP)
 CC having a molecular weight of 8, 14, 17, 21, 26 or 42 kD in a human
 CC subject comprises (a) contacting a sample from a human subject that
 CC is suspected of containing the NTP with at least one molecule
 CC capable of binding to the protein; and (b) detecting any of the
 CC molecule bound to the protein. The binding molecule is selected
 CC from an antibody free of natural impurities, a monoclonal antibody
 CC or a binding fragment of either of these. The method may be used for
 CC diagnosing the presence of Alzheimer's disease, neuroectodermal
 CC tumours and a malignant astrocytoma in a human.
 SO
 Sequence 1418 BP; 302 A; 396 C; 315 G; 405 T; 0 other;
 Query Match 84.8%; Score 1223.4; DB 17; Length 1418;
 Best Local Similarity 96.9%; Pred. No. 0;
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QY 2 tttttttttagatgagtttctgtctgttggccaggctgagtgcaatgagcgaat 61
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 QY 480 gtgcagtggtgtgacacagctcagctgagcttcaactcccgagatcaagcactcct 539
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 QY 540 gctcagcctccc-aagtagctgagcaagaagacatgacacacacacacacacacacac 598
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 DB 1315 agtcaac-ttttaaacagttacatcttatttttagtatactagaagaagtcagtaac 1373
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RESULT 2
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 ID AA077883 standard; cDNA; 1381 BP.
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 AC AA077883;
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 DT 06-JUL-1995 (first entry)
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 DE Neural thread protein AD10-7 cDNA.
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 KW Neural thread protein AD10-7; Alzheimer's; neuroectodermal tumours;
 XX malignant astrocytomas; glioblastomas; ss.
 OS Rattus rattus.
 XX
 PN WO9423756-A.
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 PD 27-OCT-1994.
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 PF 20-APR-1994; 94WO-US04321.
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PR 16-MAR-2000; 2000US-0189874.
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PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
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PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251868.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251899.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.

(HUMA-) HUMAN GENOME SCI INC.
PA
XX
PI Rosen Ca, Barash SC, Ruben SM;
XX
XX WPI; 2001-483426/52.
XX
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and
PT metastasis -
XX
XX Disclosure; SEQ ID NO 27905; 3071pp + Sequence Listing; English.
PS
XX
CC AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)

amino acid sequences given in AAM82170 to AAM91921. (I) have cytosolic activity, and can be used in gene therapy and vaccine production. (I) CC treatment of polynucleotides may be used in the prevention, diagnosis and CC CC treatment of diseases associated with inappropriate (I) expression. For CC example, they may be used to treat disorders associated with decreased CC expression by rectifying mutations or deletions in a patient's genome CC that affect the activity of (I) by expressing inactive proteins or to CC supplement the patient's own production of (I). Additionally, (I) CC polynucleotides may be used to produce the secreted (I), by inserting CC the nucleic acids into a host cell and culturing the cell to express the CC protein. (I) proteins and polynucleotides may be used to prevent, CC diagnose and treat metastases/hematopoietic-related diseases, especially CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703 CC to AAK87694 represent human immune/hematopoietic antigen genomic CC sequences from the present invention. AAK574912 to AAK51950 and AAM82169 CC represent sequences used in the exemplification of the present invention.

Sequence 33747 BP; 8538 A; 7691 C; 7893 G; 9625 T; 0 other;

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| Query Match | 35.9% | Score 517.2 | DB 22 | Length 33747 |
| Best Local Similarly | 68.8% | Pred. No. 2.1e+127 | | |
| Matches 844 | Conservative | 0 | Mismatches 363 | Indels 19 |
| | | | | Gaps 9 |

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| QY | 1 | tttttttttgaaatggagtttcctgctctgtgttcgcaaggttgaaatgagtcgca | 60 |
| Db | 541 | tttttttttttgaaatggagtttcct--cgctctgtcgcgcaaggttgaaatgagtcgca | 598 |
| QY | 61 | tctcaagctcaacgcgaactcgcgcctccgggtgttcaagcgatctctcgtcctaagctccc | 120 |
| Db | 599 | tctcaagctcaacgcgaactcgtcgcctccgaaggttttaagcgatctctcgtcctaagctccc | 658 |
| QY | 121 | cagtaagcgggattacaagcgatgtgcaccacaagcgcggctaattttgatttttttag | 180 |
| Db | 659 | tagaagcgcgggattatataagctcgtccacacacagcctgtgcctaattt--tgatttttag | 715 |
| QY | 181 | tagaatgtagaattctcccatgtgtgtgttcagcgtcgtgctctgtaactccgaactcagatgac | 240 |
| Db | 716 | cagaagacgggtgtttgtcatgtgtgtgcagcgtcgtgtctcaactcctgatactcagtgatc | 775 |
| QY | 241 | cctcgtctctgcgcctccccaagaagtctgaataacagaaacgtgcacacatgcccgcctctgc | 300 |
| Db | 776 | tgctcgtcctctgtgcctccccaagaagctcgtcggatatacagttgtgaacacgtcacctgtgccta | 835 |
| QY | 301 | tgtcgctaattttgtgtgtgaagaacaggtgttcaactgtatgtgccaaagctgtgtctcc----- | 355 |
| Db | 836 | tttttattattttgtgtgtgaagaagatcttgctctctttgttcagaagcgtgagttgagttg | 895 |
| QY | 356 | tgaagctcaagacgtccacactgtgcctcaagctcccaagtgctcgggtttcaagcgtgcagc | 415 |
| Db | 896 | tatgatccacagctcaattgcagcgtccccaactctcgtgactcaagcaatctctccacactgac | 955 |
| QY | 416 | cgctgcctgccttttattattatttttttaagaacacaggtgtgccactcttaccaga | 475 |
| Db | 956 | tgctcgtgagtagctgtgactacaagctgtgcgcacatgtctcgtgctaattttgtatttt | 1015 |
| QY | 476 | tgaagtcgacgtggtgtgatac--cagctcactgtgcagccttaactctcgatatacagc-a | 532 |
| Db | 1016 | tgtatgaatgtgggtttgtgtcctgtcgttcacaggtatgtgttaactctcgtgcctcaagaa | 1075 |
| QY | 533 | tccctccgtccctcagcctccccaagtagctcgtggacaagaacatgtcacctcactacactgtgc | 592 |
| Db | 1076 | tctcccgccctgtgttaccacaagaagtgtgtggatatatagatcattgtgcagacc | 1135 |
| QY | 593 | aatttttaatttttaatttttaatttttvgagaacagatctcaactcgtcacccagcgttg | 652 |
| Db | 1136 | tatacaat-tggctttttttttttttttttttttttagatgtgactc-actctgtgtgcagagttg | 1193 |
| QY | 653 | agtacagttggcgcaactctgtgtcactcagtcacacgtcgtccgcgggtttcaagttattttc | 712 |
| Db | 1194 | agtgcagttggcgcaactctgtgtcactcagtcacacgtcctctcccggtttcaagcagtttttc | 1253 |
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| | | | |
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| Db | 1254 | ctgcccgaagcctccctaagtagctgtagagactaaggcgcgaatgccaccacaacccgcgcgaattt | 1313 |
| Qy | 770 | tttgtatttttaagtagagaatgggtatccacatgtccgcaggttgatcctgtgactctg | 829 |
| Db | 1314 | tgtatatttttaagtagagaggggtttcacacatatggtccagctggtcttgcgaactctg | 1373 |
| Qy | 830 | acctgtgatctgcgcgtgcctgcgcctcccaagtgcgtggaattacaagcgttagaccacca | 889 |
| Db | 1374 | acctgtgactctgctgcctgcgcctcccaaatgctgcggaattacaagcatgagcgaactg | 1433 |
| Qy | 890 | cgccgcgcatttttaattttgtgtgttgtaaatggaatctcaactcgtttaccgaagc | 949 |
| Db | 1434 | caccgcgcgcgaactt-cttttctcttggaagcggagctcaactaactttgtgcgcgaagc | 1492 |
| Qy | 950 | tggagtgcaatgagccaatctgcgtctacgtgcgaacccgtcctccgcgcgaacggaatt | 1009 |
| Db | 1493 | tggagtagaagtgatgatctcaagctcaataaccctcaactctcgtgttcgagtcatt | 1552 |
| Qy | 1010 | ctctcgtctcaagcctcccaagacgtggaattacggtgaacctgcacacaacccgcgttaa | 1069 |
| Db | 1553 | tctctgcctcaactctcccccagtagctgcgaattacaagcgttatgcacacatacccgcttaa | 1612 |
| Qy | 1070 | ttttttatttttattagaagcggggtttcacatatattgtcgaagcgtgtcttaaatctc | 1129 |
| Db | 1613 | tttttgcgttttaagttagtagaaggggttttaccatgttggtagaactggtctccaactcc | 1672 |
| Qy | 1130 | tgaactcaagtgtagccaacacactgcgtccacgtctccaagaatgcttggtattacaagcgttagcc | 1189 |
| Db | 1673 | tgaacttaagtgatctgcgcgcgtccgaagcctccccaagaatgcttggtattacaagcgttagcc | 1732 |
| Qy | 1190 | acctcaaccagcgcgcatattatgatt | 1215 |
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| ID | AAK71768 standard; DNA; 5262 BP. |
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| AC | AAK71768; |
| XX | |
| DT | 06-NOV-2001 (first entry) |
| XX | |
| DE | Human immune/haematopoietic antigen genomic sequence SEQ ID NO:26580. |
| XX | |
| KW | Human; immune; haematopoietic; immune/haematopoietic antigen; cancer; |
| KW | Cytostatic; gene therapy; vaccine; metastasis; ds. |
| XX | |
| OS | Homo sapiens. |
| XX | |
| PN | MO200157182-A2. |
| PD | |
| PD | 09-AUG-2001. |
| PF | |
| PF | 17-JAN-2001; 2001WO-USO1354. |
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| PR | 31-JAN-2000; 2000US-0179065. |
| PR | 04-FEB-2000; 2000US-0180628. |
| PR | 24-FEB-2000; 2000US-0184664. |
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 PR 08-NOV-2000; 2000US-0246532.
 PR 08-NOV-2000; 2000US-0246609.
 PR 08-NOV-2000; 2000US-0246610.
 PR 08-NOV-2000; 2000US-0246611.
 PR 08-NOV-2000; 2000US-0246613.
 PR 17-NOV-2000; 2000US-0249207.
 PR 17-NOV-2000; 2000US-0249208.
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 PR 11-DEC-2000; 2000US-0251990.
 PR 05-JAN-2001; 2000US-0259678.
 (HUMA-) HUMAN GENOME SCI INC.
 Rosen CA, Barash SC, Ruben SM;
 WPI. 2001-483426/52.
 Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
 useful for preventing, diagnosing and/or treating cancers and
 metastasis -
 PS Disclosure: SFD ID NO 26580; 3071pp + Sequence Listing; English.
 PS
 XX
 CC AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
 CC amino acid sequences given in AAM62170 to AAM91921. (I) have cytosolic
 CC activity, and can be used in gene therapy and vaccine production. (I)
 CC proteins and polynucleotides may be used in the prevention, diagnosis and
 CC treatment of diseases associated with inappropriate (I) expression. For
 CC example, they may be used to treat disorders associated with decreased
 CC expression by rectifying mutations or deletions in a patient's genome
 CC that affect the activity of (I) by expressing inactive proteins or to
 CC supplement the patient's own production of (I). Additionally, (I)
 CC polynucleotides may be used to produce the secreted (I), by inserting
 CC the nucleic acids into a host cell and culturing the cell to express the
 CC protein. (I) proteins and polynucleotides may be used to prevent,
 CC diagnose and treat immune/hematopoietic-related diseases, especially

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 PR 05-JAN-2001; 2001US-0259676.
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen CA, Barash SC, Ruben SM;
 XX
 DR WPI; 2001-483426/52.
 XX
 PT Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
 PT useful for preventing, diagnosing and/or treating cancers and
 PT metastasis -
 XX
 PS Disclosure; SEQ ID NO 26581; 3071pp + Sequence Listing; English.
 XX
 CC AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
 CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
 CC activity, and can be used in gene therapy and vaccine production. (I)
 CC proteins and polynucleotides may be used in the prevention, diagnosis and
 CC treatment of diseases associated with inappropriate (I) expression. For
 CC example, they may be used to treat disorders associated with decreased
 CC expression by rectifying mutations or deletions in a patient's genome
 CC that affect the activity of (I) by expressing inactive proteins or to
 CC supplement the patients own production of (I). Additionally, (I)
 CC polynucleotides may be used to produce the secreted (I), by inserting
 CC the nucleic acids into a host cell and culturing the cell to express the
 CC protein. (I) proteins and polynucleotides may be used to prevent,
 CC diagnose and treat immune/haematopoietic-related diseases, especially
 CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
 CC to AAK87694 represent human immune/haematopoietic antigen genomic
 CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
 CC represent sequences used in the exemplification of the present invention.
 XX
 SQ Sequence 5262 BP; 1100 A; 1346 C; 1245 G; 1571 T; 0 other;

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| PR | 08-NOV-2000; | 200005-0246609. |
| PR | 08-NOV-2000; | 200005-0246610. |
| PR | 08-NOV-2000; | 200005-0246611. |
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| PR | 17-NOV-2000; | 200005-0249213. |
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| PR | 17-NOV-2000; | 200005-0249215. |
| PR | 17-NOV-2000; | 200005-0249216. |
| PR | 17-NOV-2000; | 200005-0249217. |
| PR | 17-NOV-2000; | 200005-0249265. |
| PR | 17-NOV-2000; | 200005-0249297. |
| PR | 17-NOV-2000; | 200005-0249299. |
| PR | 17-NOV-2000; | 200005-0249300. |
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| PR | 01-DEC-2000; | 200005-0251160. |
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| PR | 05-DEC-2000; | 200005-0251988. |
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| PR | 11-DEC-2000; | 200005-0254097. |
| PR | 05-JAN-2001; | 200105-0259678. |
| XX | | |
| PA | (HUMA-) | HUMAN GENOME SCI INC. |
| XX | | |
| PI | Rosen CA, Barash SC, Ruben SM; | |
| XX | | |
| DR | WPI; 2001-541565/60. | |
| XX | | |
| PT | Nucleic acids encoding 3224 human nervous system antigen polypeptides, | |
| PT | useful for preventing, diagnosing and/or treating nervous system | |
| XX | cancers and metastases - | |
| PS | | |
| XX | Disclosure; SEQ ID NO 8463; 1701bp + Sequence Listing; English. | |
| XX | | |
| CC | The invention relates to novel genes (ABA11004-ABA21534) and proteins | |
| CC | (ABA14678-ABA18001) useful for preventing, treating or ameliorating | |
| CC | medical conditions e.g. by protein or gene therapy. The genes are | |
| CC | isolated from a range of human tissues disclosed in the specification. | |
| CC | The nucleic acids, proteins, antibodies and (ant)agonists are useful | |
| CC | in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast | |
| CC | and ovarian cancer and other cancers of the adrenal gland, bone, bone | |
| CC | marrow, breast, gastrointestinal tract, liver, lung, or urogenital; | |
| CC | (b) immune disorders e.g. Addison's disease, allergies, autoimmune | |
| CC | haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's | |
| CC | disease, multiple sclerosis, rheumatoid arthritis and ulcerative | |
| CC | colitis; (c) cardiovascular disorders such as myocardial ischaemias; | |
| CC | (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and | |
| CC | epilepsy; and (f) infectious diseases such as viral, bacterial, fungal | |
| CC | and parasitic infections. | |
| CC | Note: The sequence data for this patent did not form part of the | |
| CC | printed specification, but was obtained in electronic format directly | |
| CC | from WIPO at ftp.wipo.int/pub/published_pct_sequences. | |
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| XX | | |
| SEQ | Sequence 24167 BP; 6223 A; 6198 C; 6379 G; 5367 T; 0 other; | |

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Db 3032 AGTAGAAGAGGGGTTTACACCATGTTGGCCAGGCT-GTCTTGAACTCCTGACCTAGGTGA 2974
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Qy 295 tctgcctgagctaatcttggtagaagagaggttcactgagtgcccaagctgctc 354
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Qy 355 ctgagctcaagcagctcagctcctcagcctcccaagtgctgagattacagcgctgag 414
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Db 2797 CATTCCTGCTCAGCCCTCAGAGTGGGACTGAGGCGCCGCCACCGCCGCG 2738
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Qy 516 actcctgagatcaagcactcctcctcagcctcccaagtagctggagccaagacatg 575
Db 2677 TCTCTGACCTCATG-ATCCACCCGCGCTCGGCTCCCAAGGCTGGGATTACAGGCGTG 2619
Qy 576 caccactacactgcttaatttatttatttatttatttgaagacagagctccaac 635
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Db 2567 TCTGTACACCAAGGCTGGATGAGTGGGCC-ATCTCAGCTCACTGACCTCACCCTCCC 2509
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Db 2508 GGGTTCAGATATTCTCTGCTCAGTCTCCGAGTAGCTGGGATTACAGGACCCACCA 2449
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Db 2448 CCATGCCCGCTCATGTTGATTTTATGAGAGAGGGGTTTCAACATGTTGGCCAGGC 2389
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Qy 872 taagagtgtagcacaagcgccgcgt--tattttaattttgtttggttgaatgaa 929
Db 2328 TACAGGGGTGAGCAGCCGCGCCACCTAATAAATAATTTATTTTGTAGAGAGGAG 2269
Qy 930 tctcaactgttaccagctgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 989
Db 2268 TCTGTCTGTGACACCAAGCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 2209
Qy 990 cctccgagtgcaagcgaattctcgtctcagcctcccaagcagtgagtgagtgagtgag 1049
Db 2208 CTTCCCGGGTTTACACCATTTCTCGTCAAGCTCCCGAGTGTGAGTGTGAGTGTGAGTGTGAG 2149
Qy 1050 ctgac 1108
Db 2148 CACGACACACACACCGGTAATTTTGTATTTTGTATTTTGTATTTTGTATTTTGTATTTTGTATTT 2089
Qy 1109 gtcaggtgctcctcaactcctcagtgagtgagtgagtgagtgagtgagtgagtgagtgag 1168
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Qy 1169 ctgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 1225
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ID AA163343 standard; DNA; 31853 BP.
XX
AC AA163343;
XX
DT 22-OCT-2001 (first entry)
XX
DE Human kidney related polynucleotide SEQ ID NO 658.
XX
KW Human; kidney antigen; immunosuppressive; antiarthritic; antirheumatic;
KW antiproliferative; cytostatic; cardiant; vasotropic; cerebroprotective;
KW neurotropic; neuroprotective; antibacterial; virucide; fungicide;
KW ophthalmological; antiallergic; hepatotropic; antidiabetic;
KW antiinflammatory; anticancer; cancer; immune disorder; cardiovascular disorder;
KW gene therapy; cancer; immune disorder; cardiovascular disorder;
KW neurological disease; infection; ds.
XX
OS Homo sapiens.
XX
PN WO200155323-A2.
XX
PD 02-AUG-2001.
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PE 17-JAN-2001; 2001WO-US01343.
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PR 31-JAN-2000; 2000US-0179065.
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PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.
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PR 01-SEP-2000; 2000US-0229343.
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PR 05-SEP-2000; 2000US-0229509.

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| Db | 3032 | AGTAGAAACGGGGTTTCCACCATGTGTGGCCAGAGCT-GTCTTGAACTCCAGACTCAGAGTGA | 2974 |
| OY | 239 | ttccctcgcttcggcctcccaagtgctag----atacaggaactggtccacatgcccgc | 294 |
| Db | 2973 | TCCACTCGCTTGCGCCCTCCAAAGTGTGGGATTACAGGCGCTGAGCCACCCTCGGCCACT | 2914 |
| OY | 295 | tctgcctggtctaaatttttgcgtgaacaaggggttcaactgatgtgccaaagctgctc | 354 |
| Db | 2913 | AATTAATATTAATTAATTTTGTGTAACAGGAGTCTGCTGTGTCGCCACGCGGAGCTG | 2855 |
| OY | 355 | ctgagctcaagcagctcacctgctcagcctcccaagtgctggatataagcggtgag | 414 |
| Db | 2853 | CGGA---CTGCAGTGGCGGCAATCTCGGCTACATGCACAGCTCCCTTCCCGGTTACAGC | 2798 |
| OY | 415 | ccgtgcctggtccctttatcttattttttttaagaacaggtgtcccaacttaaccag | 474 |
| Db | 2797 | CATTTCCTTCCTCAGCGCTCCTAGTAGCTGGAGCTACAGGCGCCGACCGCGCCGG | 2738 |
| OY | 475 | atgaagtgcaagtggtgtgatacaag-----ctcactgcaagcttca | 515 |
| Db | 2737 | CTAATTTTTTGTATTTTAACTAGACAGCGGGTTTCACCTGTATAGCCAGATGTCGA | 2678 |
| OY | 516 | actccctgagatacaagatcctcctgcctgcagcctcccaagtagctggagccaagaatg | 575 |
| Db | 2677 | TCTCTGACCTATG-ATCCACCGGCTCGGCTCCCAAGTGTGGATTAACAGGGGTG | 2619 |
| OY | 576 | caccactacaactggtctaatttatttatttatttatttcttgcagacagagctcaac | 635 |
| Db | 2618 | AGCACACGGGCCAGC-----CTTTTTTTTTTTTTTTGTGAGACACAGTCTC-AC | 2568 |
| OY | 636 | tctgtacccaagctctgagtgcagcgtgagcaacttggtcctcactgcgaactgctctcc | 695 |
| Db | 2567 | TCTGTACCCAGGCTGTGAATGACAGTGGCC-ATCTCAGCTCAGTCAACCTCCACTCC | 2509 |
| OY | 696 | gggttcaagttaattcctcctgcagcccaactcctctagtagtcggtgactaagcgccaca | 755 |
| Db | 2508 | GGTTCAATGATTCCTGCGCTCCAGTCTCCGAGTAGCTGGGATTACAGGCACCCACA | 2449 |
| OY | 756 | gcgcctagcctaat-tttttgtatttttagtagagaatggg-ctcaacatgttcgcgaagt | 813 |
| Db | 2448 | CCATGCCCCGCTCATGTTTTGTATTTTAAAGAGAGCGGGTTTCACCATGTGTGCCAGGC | 2389 |
| OY | 814 | tgatcttgaatctctgtaacct--tgatctgcagctctgcgtgcctcccaagtgctgagt | 871 |
| Db | 2388 | TGCTGTGAACTCCTGACCTCAGTGATCACACTGCTTGCCCTCCAAAGTGTGGGAT | 2329 |
| OY | 872 | tacagggctgagccacacagccccgct--tattttaatttgttgtttgaatga | 929 |
| Db | 2338 | TACAGGCGGTGACACACCGCGCCAGCTAATTAATAATATATATTTTTTGTGAGACGGAG | 2269 |
| OY | 930 | tctcaactcgtttacccaagctctgagtgagcaatggccaatctgcgtccactgcaaccttg | 989 |
| Db | 2268 | TCTCGCTCTGTACCCAGGCTGGAGTGCAGTGGTGGACTCGGCTCAGTCAAGGTCA | 2209 |
| OY | 990 | ccctccgggctcaagcgaattctcctgtctcagcagctcccaagcagcggtgaatcagggac | 1049 |
| Db | 2208 | CTCCCGGGTTACACACTTTCTCTGCTGCHACAGCTCCCGAGTAGTGGAATTAAGGCAC | 2149 |
| OY | 1050 | ctgccaacacaccccgctaa-ttttgatattcaatlaagaagcggtttcacataatt | 1108 |
| Db | 2148 | CCACACACACACCCGGCTAATTTTTTGTATTTTAACTAGAGAGGGGGTTTCACTGTGTGA | 2089 |
| OY | 1109 | gtcagcgctgtctcaaacctccgacctgaagtgbaaccacactgctgaagcttccaagt | 1168 |
| Db | 2088 | GCGAGGGTAGTTCGATCTCTGACTCA--TGATCCGCCACACTCGGCTCCCAAGTG | 2031 |
| OY | 1169 | ctggattacagggctgagccaactcaccagccggcttaattagataaaaaatat | 1225 |

| Db | 2030 | CTGGGATTACAGGCGTGAGCCACCGCCGACCCCATTAATAATTTTAAAAAAT | 1974 |
|--------|---|--|------|
| RESULT | 11 | | |
| ID | AAS39682/c | | |
| XX | AAS39682 standard; DNA; 11319 BP. | | |
| XX | AAS39682; | | |
| DT | 17-DEC-2001 | (first entry) | |
| DE | Genomic sequence #101 encoding human colon associated polypeptide. | | |
| XX | | | |
| KW | Human; colon cancer; congenital abnormality; infection; colitis; | | |
| KW | Inflammatory bowel disease; IBD; neoplastic disorder; gene therapy; | | |
| KW | intestinal inflammatory disorder; malabsorption syndrome; gastric; | | |
| KW | sigmoid disease; antibacterial; antiviral; antiinflammatory; | | |
| XX | Cytostatic; ds. | | |
| OS | Homo sapiens. | | |
| PN | WO200155302-A2. | | |
| XX | | | |
| PD | 02-AUG-2001. | | |
| XX | | | |
| PF | 17-JAN-2001; 2001MO-US01240. | | |
| XX | | | |
| PR | 31-JAN-2000; 2000US-0179065. | | |
| PR | 04-FEB-2000; 2000US-0180628. | | |
| PR | 24-FEB-2000; 2000US-0184664. | | |
| PR | 02-MAR-2000; 2000US-0186350. | | |
| PR | 16-MAR-2000; 2000US-0189874. | | |
| PR | 17-MAR-2000; 2000US-0190076. | | |
| PR | 18-APR-2000; 2000US-0198123. | | |
| PR | 19-MAY-2000; 2000US-0205315. | | |
| PR | 07-JUN-2000; 2000US-0209467. | | |
| PR | 28-JUN-2000; 2000US-0214886. | | |
| PR | 30-JUN-2000; 2000US-0215135. | | |
| PR | 07-JUL-2000; 2000US-0216647. | | |
| PR | 07-JUL-2000; 2000US-0216880. | | |
| PR | 11-JUL-2000; 2000US-0217487. | | |
| PR | 11-JUL-2000; 2000US-0217496. | | |
| PR | 14-JUL-2000; 2000US-0218290. | | |
| PR | 26-JUL-2000; 2000US-0220963. | | |
| PR | 26-JUL-2000; 2000US-0220964. | | |
| PR | 14-AUG-2000; 2000US-0224518. | | |
| PR | 14-AUG-2000; 2000US-0224519. | | |
| PR | 14-AUG-2000; 2000US-0225213. | | |
| PR | 14-AUG-2000; 2000US-0225214. | | |
| PR | 14-AUG-2000; 2000US-0225266. | | |
| PR | 14-AUG-2000; 2000US-0225267. | | |
| PR | 14-AUG-2000; 2000US-0225268. | | |
| PR | 14-AUG-2000; 2000US-0225270. | | |
| PR | 14-AUG-2000; 2000US-0225447. | | |
| PR | 14-AUG-2000; 2000US-0225757. | | |
| PR | 14-AUG-2000; 2000US-0225758. | | |
| PR | 14-AUG-2000; 2000US-0225759. | | |
| PR | 18-AUG-2000; 2000US-0226279. | | |
| PR | 22-AUG-2000; 2000US-0226681. | | |
| PR | 22-AUG-2000; 2000US-0226868. | | |
| PR | 22-AUG-2000; 2000US-0227182. | | |
| PR | 23-AUG-2000; 2000US-0227109. | | |
| PR | 30-AUG-2000; 2000US-0228924. | | |
| PR | 01-SEP-2000; 2000US-0229287. | | |
| PR | 01-SEP-2000; 2000US-0229343. | | |
| PR | 01-SEP-2000; 2000US-0229344. | | |
| PR | 01-SEP-2000; 2000US-0229345. | | |
| PR | 05-SEP-2000; 2000US-0229509. | | |
| PR | 05-SEP-2000; 2000US-0229513. | | |
| PR | 06-SEP-2000; 2000US-0230437. | | |
| PR | 06-SEP-2000; 2000US-0230438. | | |
| PR | 08-SEP-2000; 2000US-0231242. | | |
| PR | 08-SEP-2000; 2000US-0231243. | | |

| | Query Match | Best Local Similarity | Score | DB | Length |
|----|---|-----------------------|--------|-----|--------|
| CC | cytokinesis or the cell cycle, or inhibit the proliferation in a cancer cell by contacting the cell with the antisense oligonucleotide. | 69.8%; | 475.4; | 22; | 14796; |
| CC | cell by contacting the cell with the antisense oligonucleotide. | 69.8%; | 475.4; | 22; | 14796; |
| CC | AS21521-AS21768 represent Survivin nucleic acids, and antisense oligonucleotides targeted to Survivin, used in the method of the invention. | 69.8%; | 475.4; | 22; | 14796; |
| CC | AS21521-AS21768 represent Survivin nucleic acids, and antisense oligonucleotides targeted to Survivin, used in the method of the invention. | 69.8%; | 475.4; | 22; | 14796; |
| CC | AS21521-AS21768 represent Survivin nucleic acids, and antisense oligonucleotides targeted to Survivin, used in the method of the invention. | 69.8%; | 475.4; | 22; | 14796; |
| XX | Sequence 14796 BP, 3482 A, 3488 C, 3888 G, 3938 T, 0 other; | 69.8%; | 475.4; | 22; | 14796; |
| SO | Sequence 14796 BP, 3482 A, 3488 C, 3888 G, 3938 T, 0 other; | 69.8%; | 475.4; | 22; | 14796; |
| | Matches 877; Conservative 0; Mismatches 321; Indels 59; Gaps 15; | 69.8%; | 475.4; | 22; | 14796; |
| QY | 1 ttttttttttttgagatgagtttcgtctctgtgtgcccaagcgtgagtgaaatggcgcaa | 69.8%; | 475.4; | 22; | 14796; |
| DB | 5380 ttttttttttttgagatgagtttcgtctctgtgtgcccaagcgtgagtgaaatggcgcaa | 69.8%; | 475.4; | 22; | 14796; |
| QY | 61 tttcagatcacccgaacacctcgcctcccgagttcaaaagatcttcctgcctcagctccc | 69.8%; | 475.4; | 22; | 14796; |
| DB | 5439 tttcagatcacccgaacacctcgcctcccgagttcaaaagatcttcctgcctcagctccc | 69.8%; | 475.4; | 22; | 14796; |
| QY | 121 cagtagctgagatatacaggaatgtgaccacaagctgcgtcaatttggatatttttttag | 69.8%; | 475.4; | 22; | 14796; |
| DB | 5499 aatgaactaagaattacacaaaattacacaaaattacacaaaattacacaaaattacacaaa | 69.8%; | 475.4; | 22; | 14796; |

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| ID | AAS21523 | standard; | CDNA; | 14796 | BP |
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[illegible]

DNA encoding human survivin.

XX

survival; human; mouse; cytostatics
hyperproliferative; cytostatic

HC 3
EC 3
C 1
C 0
C 3
C 0

XX
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NO

XX

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30-JAN-2001; 2001WO-US02939.

02-FEB-2000; 2000US-0496694.

PA
(ISIS-) ISIS PHARM INC.
...

PI Bennett CF, Ackermann EJ, Swayze

WPI: 2001-488863/53

Novel antisense compounds

treatment of cancer -

Example 13; Page 74-79; 120pp; Eng

23C The invention relates to antisense

acid molecule encoding human Surv1 oligonucleotide inhibits the over-

antisense oligonucleotides are used

hyperproliferative condition such as

oligonucleotide so that expression

disease or condition characterised by

comprising administering the antisense addition, the antisense oligonucleotide

agent e.g. taxol or cisplatin, can
